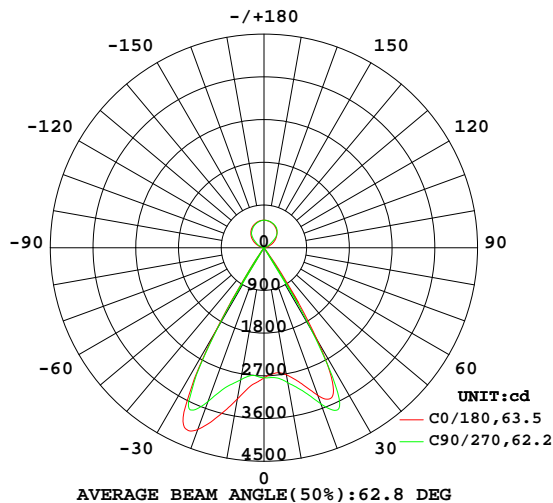


LUMINAIRE PHOTOMETRIC TEST REPORT

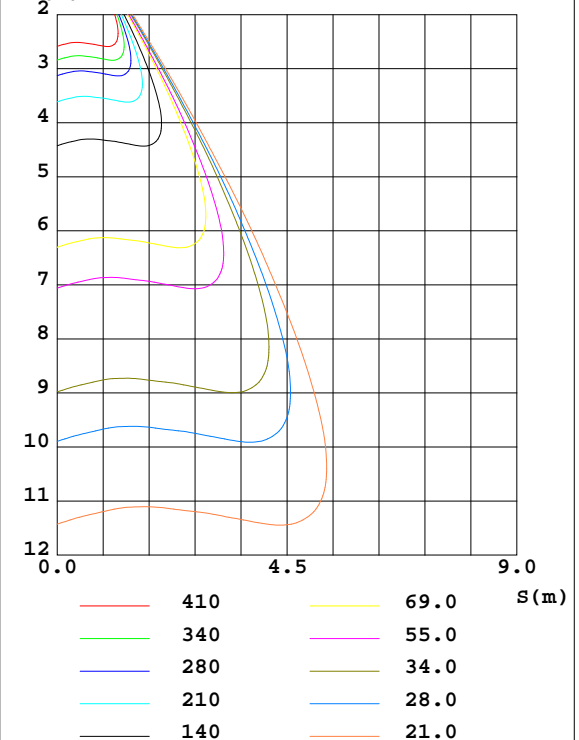
Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm					
NAME: GLOS 30-AL1200U-44W-940-60		TYPE:Linear Light		WEIGHT:	
SPEC.:4000K		DIM.: L1200mm*W30mm		SERIAL No.:	
MFR.: NEKO LIGHTING AG		SUR.:L1200mm*W30mm		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 103.97 lm/W
MODEL	SAMSUNG-4000K	I <sub>max</sub> (cd)	4176	S/MH(C0/180)	0.88	
NOMINAL POWER(W)	44	LOR(%)	100.0	S/MH(C90/270)	0.87	
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	4501.4	η UP,DN(C0-180)	16.1,34.1	
NOMINAL FLUX(lm)	4501.39	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	16.0,33.8	
LAMPS INSIDE	1	η up(%)	32.1	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	220.0	η down(%)	67.9	CIBSE SHR MAX	0.55	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

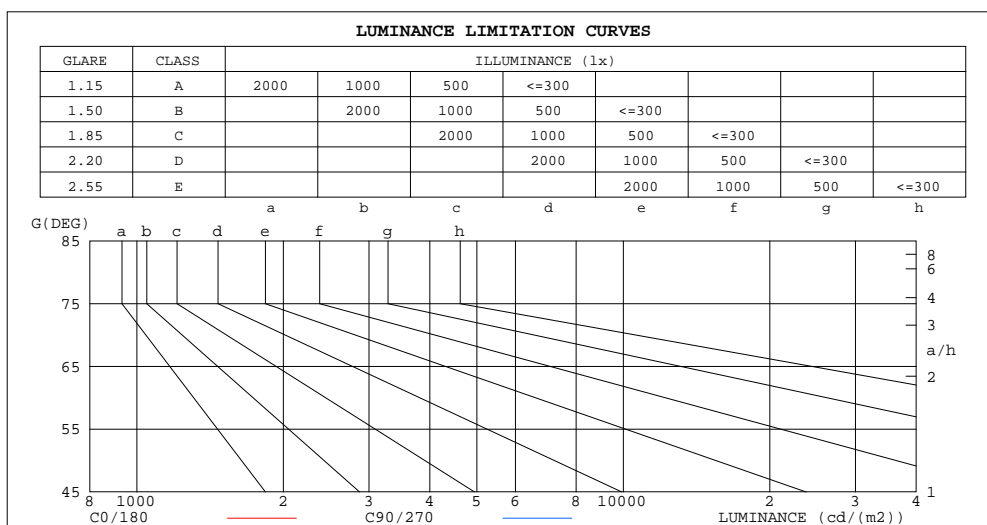
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	2716	2750	2886	3088	3233	3114	2826	2673	0- 10	267.6	267.6	5.94,5.94
20	3308	3375	3497	3720	4074	3858	3446	3272	10- 20	918.1	1186	26.3,26.3
30	2258	2284	1998	2104	2064	1934	1994	2196	20- 30	1556	2741	60.9,60.9
40	12.07	12.03	11.91	10.88	8.657	8.494	9.205	9.492	30- 40	307.5	3049	67.7,67.7
50	3.768	4.681	5.420	4.524	3.265	3.230	3.454	3.137	40- 50	4.674	3054	67.8,67.8
60	1.142	1.523	1.831	1.422	1.153	1.202	1.303	1.179	50- 60	2.286	3056	67.9,67.9
70	0.2606	0.1771	0.1441	0.1517	0.2443	0.2093	0.1513	0.2200	60- 70	0.6313	3056	67.9,67.9
80	0.2564	0.1306	0.1285	0.1204	0.2001	0.1536	0.1551	0.1661	70- 80	0.1685	3057	67.9,67.9
90	0.7061	0.3711	0.3126	0.5174	1.325	0.2814	0.1977	0.2103	80- 90	0.1813	3057	67.9,67.9
100	23.33	12.64	4.818	12.08	27.89	27.22	10.82	27.32	90-100	6.371	3063	68,68
110	115.2	56.68	22.42	56.05	124.1	92.29	72.40	89.51	100-110	45.74	3109	69.1,69.1
120	230.4	183.3	131.3	182.1	237.3	196.2	172.8	193.6	110-120	131.5	3240	72,72
130	336.3	343.5	293.4	347.9	345.1	317.1	295.9	314.4	120-130	230.0	3470	77.1,77.1
140	425.4	438.1	433.6	443.0	432.9	409.8	411.1	406.3	130-140	291.3	3762	83.6,83.6
150	492.5	500.5	507.3	503.9	498.5	481.4	477.5	478.1	140-150	288.1	4050	90,90
160	540.6	547.1	548.8	549.0	544.7	532.9	530.4	530.9	150-160	239.0	4289	95.3,95.3
170	571.2	573.5	573.9	574.9	573.7	568.8	564.6	567.3	160-170	157.5	4446	98.8,98.8
180	582.5	582.5	582.5	582.5	582.5	582.5	582.5	582.5	170-180	55.06	4501	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:



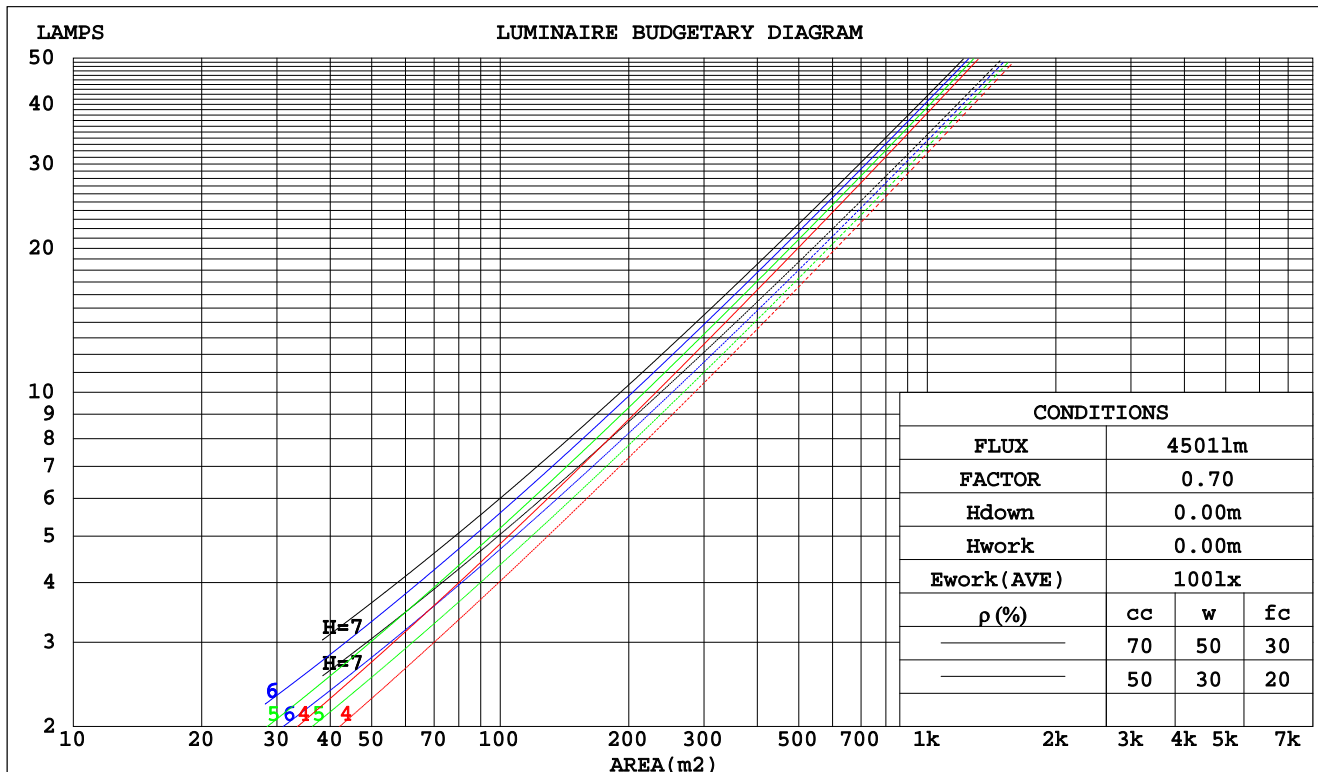
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.11	1.11	1.11	1.05	1.05	1.05	.93	.93	.93	.82	.82	.82	.73	.73	.73	.68
1.0	1.02	.99	.97	.97	.95	.92	.87	.85	.84	.78	.77	.76	.69	.69	.68	.64
2.0	.94	.90	.86	.89	.86	.83	.81	.78	.76	.73	.71	.70	.66	.65	.64	.60
3.0	.87	.82	.77	.83	.78	.75	.76	.72	.69	.69	.67	.64	.63	.61	.60	.57
4.0	.80	.75	.70	.77	.72	.68	.71	.67	.64	.65	.62	.60	.60	.58	.56	.53
5.0	.75	.69	.64	.72	.67	.63	.67	.62	.59	.61	.58	.56	.57	.54	.52	.50
6.0	.70	.64	.59	.67	.62	.58	.62	.58	.55	.58	.55	.52	.54	.51	.49	.47
7.0	.65	.59	.55	.63	.57	.54	.59	.54	.51	.55	.51	.49	.51	.48	.46	.44
8.0	.61	.55	.51	.59	.54	.50	.55	.51	.48	.52	.48	.46	.49	.46	.44	.42
9.0	.57	.51	.47	.56	.50	.47	.52	.48	.45	.49	.46	.43	.46	.43	.41	.40
10.0	.54	.48	.44	.52	.47	.44	.49	.45	.42	.47	.43	.40	.44	.41	.39	.37



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

## WEC AND CCEC

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.196	.111	.035	.179	.102	.033	.149	.085	.027	.120	.069	.022	.094	.055	.018		
2.0	.184	.101	.031	.169	.093	.029	.141	.079	.024	.116	.065	.020	.092	.052	.016		
3.0	.172	.092	.027	.159	.085	.026	.134	.073	.022	.111	.061	.019	.090	.050	.015		
4.0	.162	.084	.025	.150	.079	.023	.128	.068	.020	.107	.057	.017	.087	.048	.014		
5.0	.154	.078	.023	.143	.073	.021	.122	.064	.019	.103	.054	.016	.085	.045	.014		
6.0	.146	.073	.021	.136	.068	.020	.117	.060	.017	.099	.051	.015	.082	.043	.013		
7.0	.138	.068	.019	.129	.064	.018	.112	.056	.016	.095	.049	.014	.080	.041	.012		
8.0	.132	.064	.018	.123	.061	.017	.107	.053	.015	.092	.046	.013	.077	.040	.012		
9.0	.126	.061	.017	.118	.057	.016	.103	.051	.014	.088	.044	.013	.075	.038	.011		
10.0	.120	.058	.016	.113	.054	.015	.099	.048	.014	.085	.042	.012	.073	.037	.011		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.435	.435	.435	.372	.372	.372	.254	.254	.254	.146	.146	.146	.047	.047	.047	
1.0	.419	.404	.390	.358	.346	.336	.245	.238	.232	.141	.138	.135	.045	.044	.044	
2.0	.406	.381	.359	.348	.328	.311	.238	.227	.217	.137	.132	.127	.044	.043	.041	
3.0	.395	.363	.338	.339	.313	.293	.233	.218	.205	.134	.127	.121	.043	.041	.040	
4.0	.386	.350	.322	.331	.302	.280	.228	.211	.197	.132	.123	.116	.042	.040	.038	
5.0	.378	.339	.310	.325	.293	.270	.224	.205	.190	.130	.120	.113	.042	.039	.037	
6.0	.371	.331	.301	.319	.286	.262	.220	.200	.186	.128	.118	.110	.041	.039	.036	
7.0	.365	.324	.294	.314	.281	.257	.217	.197	.182	.126	.116	.108	.041	.038	.036	
8.0	.360	.318	.289	.310	.276	.252	.214	.194	.179	.125	.114	.107	.040	.037	.035	
9.0	.355	.313	.285	.306	.272	.248	.212	.191	.176	.123	.113	.105	.040	.037	.035	
10.0	.351	.309	.281	.302	.268	.245	.210	.189	.174	.122	.112	.104	.040	.037	.035	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm										
NAME: GLOS 30-AL1200U-44W-940-60					TYPE:Linear Light			WEIGHT:		
SPEC.:4000K					DIM.: L1200mm*W30mm			SERIAL No.:		
MFR.: NEKO LIGHTING AG					SUR.:L1200mm*W30mm			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	5.9	6.7	6.6	7.3	8.0	2.6	3.3	3.2	3.9	4.6
3H	5.6	6.3	6.3	7.0	7.7	2.3	3.0	3.0	3.6	4.4
4H	5.5	6.1	6.2	6.8	7.6	2.1	2.8	2.8	3.5	4.2
6H	5.4	6.0	6.1	6.6	7.5	2.0	2.6	2.7	3.3	4.1
8H	5.3	5.9	6.0	6.6	7.4	1.9	2.5	2.7	3.2	4.0
12H	5.2	5.8	6.0	6.5	7.3	1.8	2.4	2.6	3.1	4.0
4H 2H	5.5	6.1	6.2	6.8	7.6	2.1	2.8	2.8	3.5	4.2
3H	5.2	5.8	6.0	6.5	7.3	1.8	2.4	2.6	3.1	4.0
4H	5.1	5.5	5.8	6.3	7.2	1.7	2.2	2.5	2.9	3.8
6H	4.9	5.3	5.7	6.1	7.0	1.5	1.9	2.3	2.7	3.7
8H	4.8	5.2	5.6	6.0	6.9	1.4	1.8	2.3	2.6	3.6
12H	4.7	5.1	5.6	5.9	6.9	1.4	1.7	2.2	2.5	3.5
8H 4H	4.8	5.2	5.6	6.0	6.9	1.4	1.8	2.3	2.6	3.6
6H	4.6	5.0	5.5	5.8	6.8	1.3	1.6	2.1	2.4	3.4
8H	4.5	4.8	5.4	5.7	6.7	1.2	1.5	2.0	2.3	3.3
12H	4.5	4.7	5.3	5.6	6.6	1.1	1.3	2.0	2.2	3.3
12H 4H	4.7	5.1	5.6	5.9	6.9	1.4	1.7	2.2	2.5	3.5
6H	4.5	4.8	5.4	5.7	6.7	1.2	1.5	2.0	2.3	3.3
8H	4.5	4.7	5.3	5.6	6.6	1.1	1.3	2.0	2.2	3.3
Variations with the observer position at spacings:										
S = 1.0H	+ 6.6 / -13.5					+ 3.2 / - 4.1				
1.5H	+ 9.3 / -10.7					+ 4.6 / - 2.4				
2.0H	+ 2.9 / - 4.0					+ 2.9 / - 4.4				

CIE Pub.117, 4501 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 5.2$ )

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:

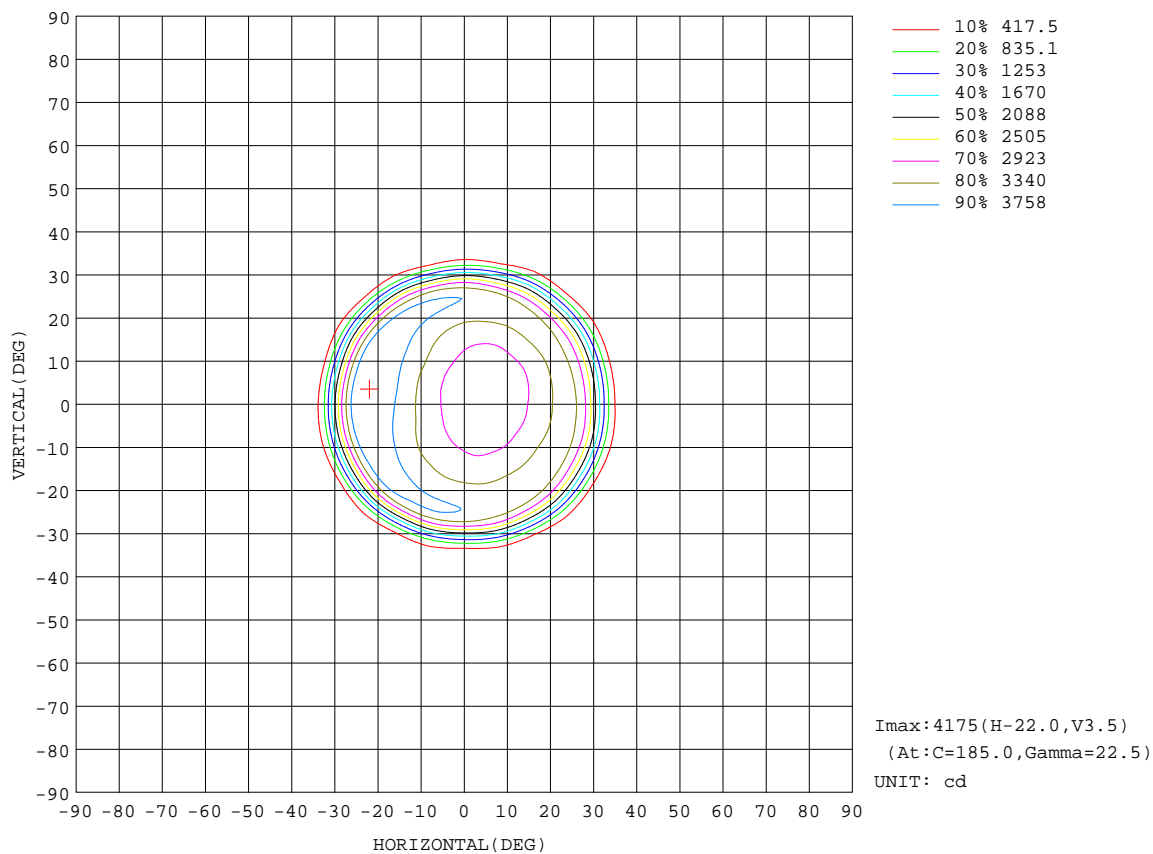
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	65	61	70	64	60	67	62	59	54
0.80	79	72	68	77	71	67	73	68	65	59
1.00	84	77	73	82	75	71	76	72	69	61
1.25	89	82	78	86	80	76	80	75	72	63
1.50	92	86	81	89	83	79	82	78	75	65
2.00	96	90	86	92	87	83	84	81	78	65
2.50	98	93	89	94	90	86	86	83	80	66
3.00	101	96	92	96	92	89	87	84	82	66
4.00	103	99	96	98	95	92	89	87	85	67
5.00	105	102	99	100	97	95	90	88	87	68
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:



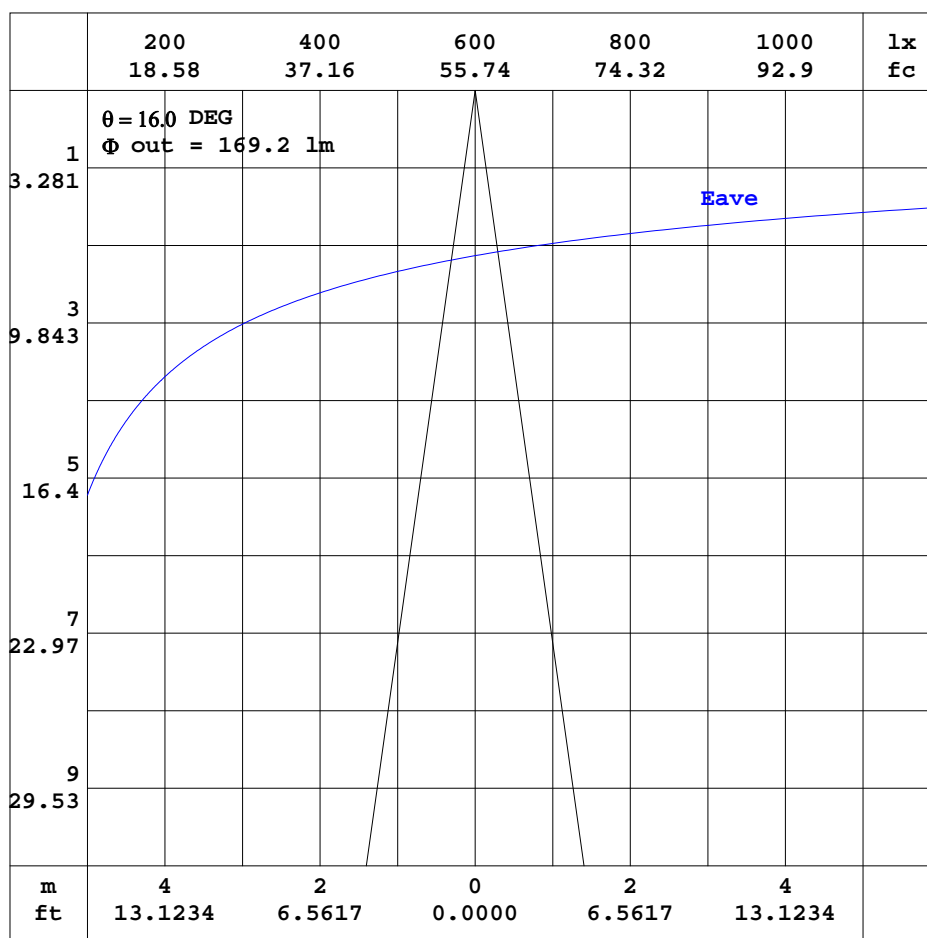
C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.967m [K=1.1152]  
Remarks:



AAI CURVES

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:



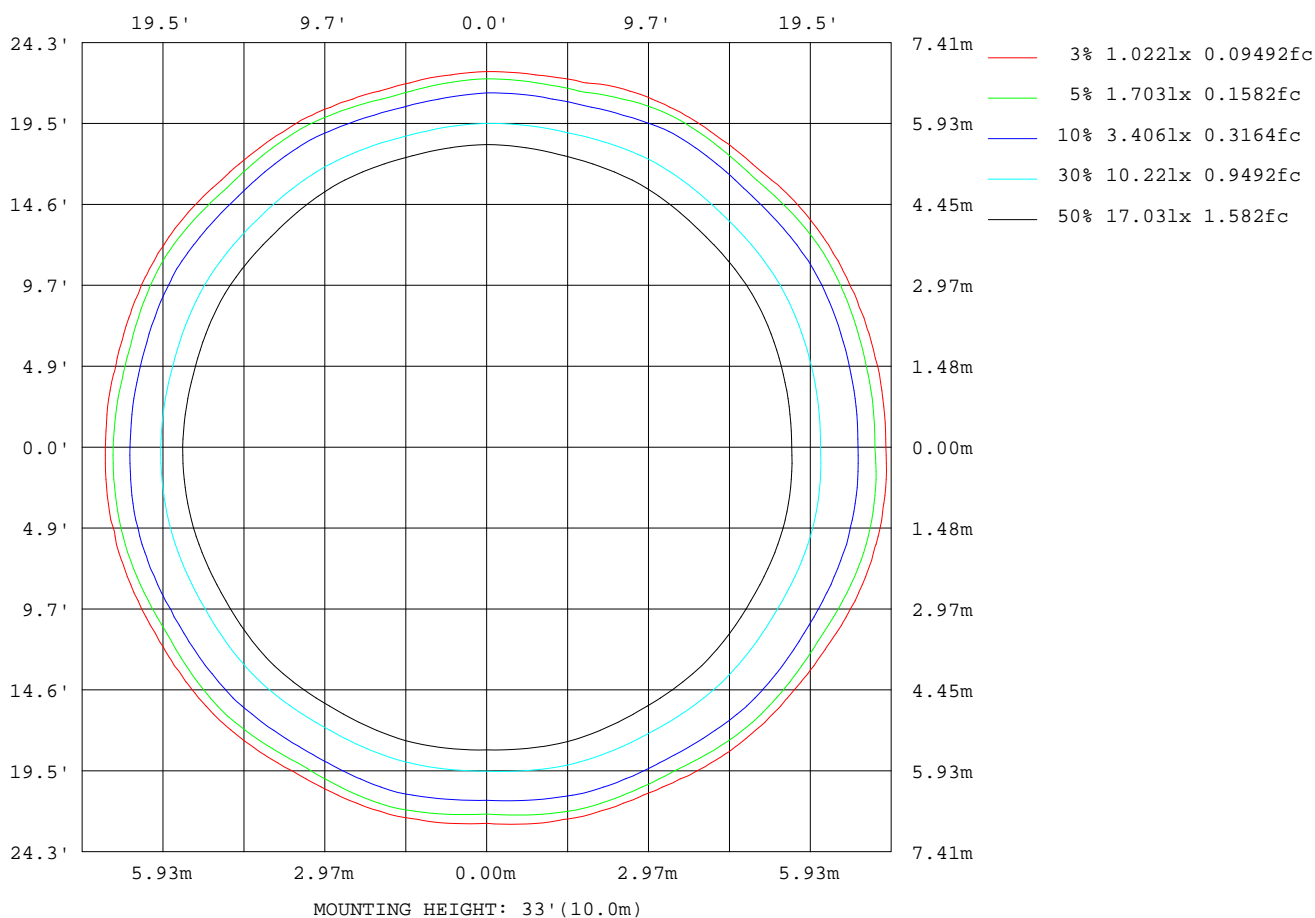
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

ISOLUX DIAGRAM

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

### LED Avg.L Report

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:

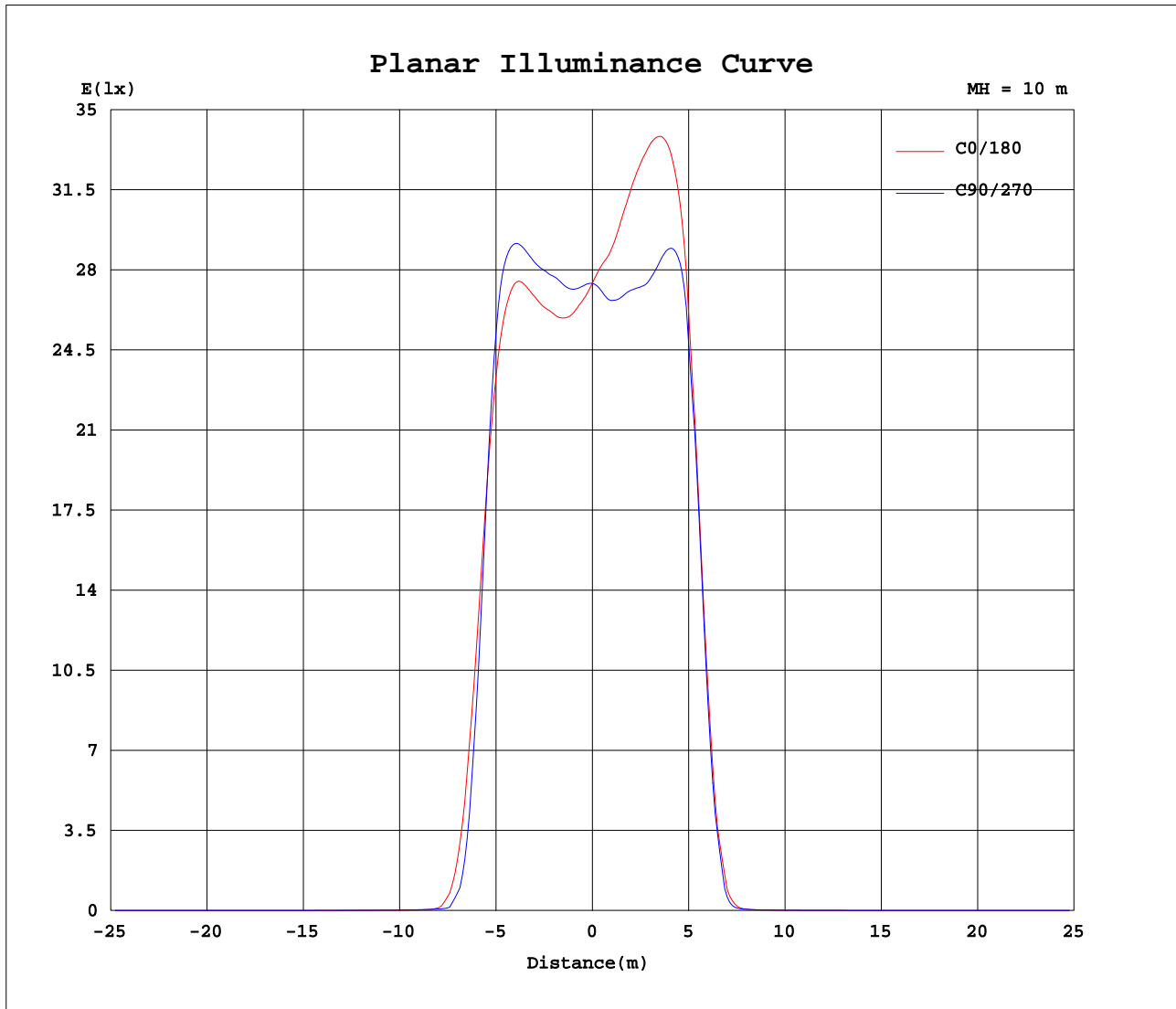
AvgL	cd/m2
L_0~180(65)av	29
L_0~180(75)av	26
L_0~180(85)av	67
L_90~270(65)av	35
L_90~270(75)av	15
L_90~270(85)av	44
L_45(65)av	40
L_45(75)av	15
L_45(85)av	45

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2021-02-06

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 8.967m [K=1.1152]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:

Table--1

UNIT: cd

C(DEC)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
γ (DEC)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741
5	2655	2654	2654	2656	2659	2663	2667	2669	2671	2674	2680	2686	2693	2700	2707	2716	2726	2737	2749
10	2716	2716	2719	2723	2730	2738	2745	2746	2748	2750	2759	2771	2783	2794	2806	2820	2841	2863	2886
15	2942	2944	2949	2956	2969	2983	2995	3000	3002	3006	3017	3029	3041	3046	3051	3058	3075	3095	3116
20	3308	3307	3310	3317	3332	3348	3363	3368	3371	3375	3386	3398	3409	3413	3417	3425	3446	3471	3497
25	3431	3429	3431	3438	3450	3466	3483	3502	3521	3539	3551	3564	3579	3604	3632	3661	3688	3713	3738
30	2258	2301	2327	2335	2314	2284	2256	2266	2279	2284	2248	2204	2165	2166	2171	2167	2110	2049	1998
35	403	436	451	448	414	372	332	329	329	324	282	235	190	171	161	155	148	143	140
40	12.1	12.6	12.9	12.9	12.6	12.2	11.8	11.8	11.9	12.0	12.0	11.9	11.9	11.9	12.0	12.1	12.1	12.0	11.9
45	5.57	5.68	5.79	5.88	5.94	6.01	6.11	6.33	6.58	6.82	6.97	7.09	7.20	7.33	7.44	7.52	7.52	7.50	7.47
50	3.77	3.80	3.85	3.91	3.98	4.06	4.17	4.32	4.50	4.68	4.89	5.08	5.25	5.35	5.41	5.44	5.45	5.44	5.42
55	2.31	2.33	2.36	2.40	2.45	2.50	2.57	2.65	2.75	2.87	3.04	3.22	3.37	3.45	3.50	3.51	3.50	3.47	3.44
60	1.14	1.17	1.20	1.24	1.27	1.31	1.36	1.40	1.45	1.52	1.64	1.76	1.87	1.92	1.94	1.94	1.90	1.86	1.83
65	0.45	0.45	0.46	0.48	0.52	0.56	0.60	0.62	0.64	0.67	0.73	0.79	0.83	0.80	0.76	0.71	0.66	0.63	0.61
70	0.26	0.21	0.18	0.18	0.17	0.18	0.19	0.19	0.18	0.18	0.19	0.20	0.20	0.18	0.15	0.13	0.13	0.14	0.14
75	0.26	0.21	0.18	0.16	0.16	0.16	0.16	0.15	0.14	0.13	0.13	0.14	0.14	0.14	0.14	0.13	0.13	0.13	0.13
80	0.26	0.21	0.18	0.16	0.16	0.16	0.16	0.15	0.14	0.13	0.13	0.14	0.14	0.14	0.13	0.13	0.13	0.13	0.13
85	0.26	0.22	0.18	0.20	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.13	0.14	0.14	0.13	0.13	0.13	0.13	0.13
90	0.71	0.62	0.55	0.46	0.44	0.40	0.33	0.37	0.37	0.37	0.36	0.35	0.34	0.34	0.00	0.00	0.34	0.34	0.31
95	5.43	5.44	5.35	5.15	4.79	4.38	3.97	3.78	3.59	3.38	2.95	2.49	2.07	1.87	1.74	1.66	1.58	1.53	1.51
100	23.3	22.2	21.0	19.6	17.9	16.2	14.7	14.0	13.4	12.6	10.8	8.79	6.96	6.03	5.45	5.13	4.90	4.81	4.82
105	62.8	65.9	66.0	63.3	55.8	46.8	37.9	33.3	29.9	27.1	23.8	20.8	18.0	15.4	13.2	11.6	10.8	10.5	10.6
110	115	128	133	131	116	98.1	79.4	69.6	62.2	56.7	52.2	48.3	44.3	37.9	31.5	26.1	23.6	22.5	22.4
115	172	187	194	194	184	169	152	136	121	108	100	94.0	88.9	82.0	75.4	69.6	65.3	62.4	61.1
120	230	240	246	249	249	244	236	220	202	183	169	158	148	141	136	133	132	131	131
125	285	292	297	301	302	301	298	294	287	278	264	249	233	221	211	203	199	197	197
130	336	341	345	348	350	352	352	350	347	343	339	334	328	320	312	304	299	295	293
135	384	387	389	392	393	395	396	397	397	397	395	393	390	385	380	376	374	374	374
140	425	427	429	430	432	433	435	436	437	438	439	439	438	437	435	433	433	433	434
145	461	462	463	464	466	468	469	470	471	472	474	475	476	476	475	475	475	476	476
150	492	493	493	494	496	498	500	500	500	501	502	503	504	505	505	506	506	507	507
155	519	519	520	521	523	524	525	525	525	525	526	527	528	528	529	529	529	530	530
160	541	542	542	543	543	544	544	545	546	547	548	548	548	548	548	548	548	548	549
165	558	559	560	560	561	561	561	561	561	561	562	563	564	564	564	564	564	565	565
170	571	572	572	572	573	573	573	573	574	574	574	574	574	574	573	573	573	574	574
175	579	580	580	580	580	580	581	581	581	581	581	581	581	581	581	581	581	581	581
180	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

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γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:8.967m [K=1.1152]
Remarks:

```

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm		
NAME: GLOS 30-AL1200U-44W-940-60	TYPE:Linear Light	WEIGHT:
SPEC.:4000K	DIM.: L1200mm*W30mm	SERIAL No.:
MFR.: NEKO LIGHTING AG	SUR.:L1200mm*W30mm	Shielding Angle:

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741
5	2898	2893	2886	2877	2867	2856	2845	2833	2819	2804	2789	2775	2761	2747	2731	2715	2700	2688	2677
10	3229	3221	3205	3187	3167	3151	3134	3114	3084	3051	3018	2988	2958	2927	2892	2858	2826	2801	2779
15	3669	3661	3638	3609	3576	3548	3519	3485	3439	3388	3335	3281	3228	3175	3123	3074	3031	3000	2974
20	4100	4099	4082	4055	4018	3969	3915	3858	3804	3752	3703	3661	3621	3582	3535	3488	3446	3416	3390
25	4006	3986	3986	3985	3980	3950	3915	3878	3854	3833	3814	3799	3785	3773	3764	3753	3739	3713	3684
30	1998	1974	1997	2024	2045	2011	1970	1934	1950	1972	1987	1948	1905	1873	1904	1948	1994	1997	2000
35	157	155	158	161	163	160	154	146	133	121	110	105	103	103	101	102	106	115	129
40	8.38	8.34	8.35	8.40	8.46	8.46	8.47	8.49	8.61	8.73	8.83	8.80	8.77	8.75	8.90	9.06	9.21	9.17	9.11
45	4.58	4.56	4.56	4.58	4.62	4.67	4.73	4.80	4.89	4.97	5.03	5.02	4.99	4.97	5.00	5.04	5.07	5.03	4.98
50	3.12	3.10	3.08	3.08	3.09	3.13	3.17	3.23	3.31	3.40	3.46	3.47	3.46	3.44	3.44	3.45	3.45	3.45	3.44
55	2.09	2.07	2.06	2.06	2.07	2.07	2.07	2.09	2.15	2.23	2.29	2.32	2.33	2.33	2.33	2.32	2.31	2.32	2.34
60	1.16	1.16	1.16	1.15	1.15	1.16	1.18	1.20	1.25	1.29	1.34	1.36	1.38	1.38	1.35	1.32	1.30	1.34	1.38
65	0.44	0.44	0.45	0.48	0.50	0.53	0.56	0.58	0.60	0.61	0.61	0.60	0.58	0.55	0.52	0.48	0.46	0.50	0.55
70	0.21	0.18	0.16	0.15	0.17	0.16	0.19	0.21	0.20	0.19	0.18	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15
75	0.19	0.17	0.16	0.15	0.16	0.14	0.15	0.16	0.16	0.17	0.16	0.16	0.15	0.14	0.14	0.15	0.15	0.15	0.15
80	0.18	0.17	0.16	0.15	0.15	0.14	0.15	0.15	0.16	0.16	0.16	0.15	0.15	0.14	0.15	0.15	0.16	0.15	0.15
85	0.17	0.16	0.16	0.15	0.27	0.14	0.14	0.15	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.15	0.15	0.15	0.15
90	1.01	0.40	0.51	0.48	0.46	0.42	0.36	0.28	0.27	0.29	0.30	0.35	0.39	0.48	0.39	0.27	0.20	0.13	0.13
95	6.46	6.67	7.50	8.31	8.90	8.59	7.94	7.05	6.00	4.95	4.06	3.79	3.70	3.68	3.40	3.14	2.96	3.04	3.22
100	25.6	24.2	24.8	25.9	26.9	27.7	27.9	27.2	24.1	20.4	16.7	14.7	13.3	12.4	11.5	11.0	10.8	11.0	11.6
105	62.0	57.1	55.4	54.6	54.4	54.7	55.1	55.0	53.7	51.7	48.9	44.5	39.9	35.7	33.2	31.7	31.2	31.8	33.4
110	111	104	99.4	95.7	93.2	92.4	92.3	91.2	89.7	87.8	85.3	82.7	79.9	76.7	74.0	72.4	73.6	75.8	
115	166	160	155	150	146	143	140	137	134	132	130	130	130	130	129	127	127	127	128
120	225	219	214	210	206	203	200	196	191	185	180	177	175	174	173	173	173	173	173
125	281	276	272	268	265	262	260	257	253	250	246	241	237	234	231	229	228	229	230
130	334	329	325	321	319	318	318	317	315	312	308	305	303	300	298	297	296	296	297
135	381	376	372	368	366	366	367	368	368	367	366	366	365	365	363	361	360	361	362
140	425	420	416	413	410	410	410	410	409	409	409	410	411	412	412	412	411	411	412
145	462	459	455	453	450	449	448	448	447	446	445	445	446	446	445	445	444	444	444
150	494	491	488	485	483	482	481	481	481	480	480	479	480	480	479	478	477	478	478
155	521	519	516	513	511	511	511	511	510	508	507	507	508	508	507	507	506	506	507
160	542	541	539	538	536	535	534	533	532	532	532	532	532	532	532	531	530	531	531
165	560	559	558	557	556	555	554	553	552	551	550	550	550	550	549	549	549	549	549
170	573	572	572	571	570	570	569	569	568	567	567	566	566	566	565	565	565	565	565
175	580	580	580	580	579	579	579	579	578	578	578	578	577	577	577	577	577	577	577
180	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.1964A P:43.30W PF:0.9642 Freq:49.90Hz Lamp Flux:4501.39x1 lm																	
NAME: GLOS 30-AL1200U-44W-940-60									TYPE:Linear Light						WEIGHT:		
SPEC.:4000K									DIM.: L1200mm*W30mm						SERIAL No.:		
MFR.: NEKO LIGHTING AG									SUR.:L1200mm*W30mm						Shielding Angle:		

Table--4

UNIT: cd

C(DEC)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
γ (DEC)	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741				
0	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741	2741				
5	2667	2657	2648	2641	2637	2634	2633	2632	2631	2632	2634	2638	2642	2646	2650				
10	2759	2736	2714	2696	2685	2678	2673	2664	2658	2654	2659	2667	2678	2689	2701				
15	2952	2928	2907	2891	2886	2884	2883	2873	2865	2860	2868	2880	2895	2909	2925				
20	3365	3333	3304	3280	3274	3272	3272	3259	3247	3239	3245	3256	3271	3282	3295				
25	3654	3630	3606	3582	3552	3522	3493	3465	3441	3423	3417	3417	3420	3422	3426				
30	2012	2074	2142	2201	2206	2200	2196	2234	2275	2310	2310	2299	2282	2274	2266				
35	151	190	230	265	263	259	263	316	375	426	428	417	402	399	400				
40	9.08	9.24	9.42	9.58	9.54	9.49	9.49	9.73	10.0	10.3	10.6	10.8	11.0	11.3	11.7				
45	4.93	4.95	4.97	4.98	4.90	4.80	4.70	4.66	4.64	4.62	4.56	4.53	4.59	4.80	5.13				
50	3.43	3.42	3.41	3.38	3.30	3.22	3.14	3.08	3.04	3.01	2.97	2.97	3.02	3.19	3.44				
55	2.34	2.31	2.27	2.22	2.15	2.09	2.03	2.03	2.04	2.05	2.03	2.02	2.03	2.09	2.19				
60	1.41	1.39	1.36	1.31	1.26	1.22	1.18	1.17	1.17	1.17	1.17	1.17	1.16	1.16	1.15				
65	0.60	0.61	0.61	0.61	0.60	0.59	0.58	0.56	0.54	0.52	0.51	0.50	0.49	0.48	0.46				
70	0.15	0.16	0.17	0.19	0.20	0.22	0.22	0.20	0.18	0.20	0.19	0.22	0.25	0.26	0.26				
75	0.15	0.15	0.15	0.16	0.16	0.16	0.17	0.16	0.17	0.19	0.19	0.22	0.24	0.25	0.26				
80	0.15	0.15	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.19	0.22	0.24	0.25	0.24				
85	0.15	0.15	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.17	0.19	0.22	0.24	0.25	0.20				
90	0.15	0.16	0.17	0.23	0.17	0.18	0.21	0.19	0.21	0.24	0.26	0.29	0.35	0.44	0.56				
95	3.47	3.62	3.87	4.31	5.31	6.42	7.47	8.17	8.60	8.72	8.24	7.53	6.76	6.25	5.80				
100	12.4	13.4	14.8	16.8	20.5	24.2	27.3	27.6	27.0	25.9	25.3	24.7	24.2	23.8	23.5				
105	35.8	39.7	43.8	47.7	50.2	52.1	53.2	53.4	53.2	53.0	53.5	54.4	55.7	57.6	59.9				
110	78.7	81.5	84.3	86.7	88.0	88.8	89.5	90.2	91.1	92.4	94.6	97.4	101	105	110				
115	129	128	128	128	130	132	135	138	141	145	148	151	155	160	166				
120	173	174	176	178	183	188	194	197	200	203	206	210	214	219	224				
125	233	236	240	244	247	251	254	257	259	261	264	267	271	275	280				
130	299	301	304	307	310	312	314	315	315	315	318	321	325	329	332				
135	364	364	365	365	365	366	366	364	362	362	364	367	371	375	379				
140	411	410	408	407	406	406	406	406	406	406	408	412	415	418	422				
145	445	444	443	443	443	444	444	445	445	446	448	451	453	456	459				
150	479	478	478	477	478	478	478	478	478	479	481	484	487	489	491				
155	507	506	506	506	506	507	508	508	508	508	510	512	515	516	518				
160	531	531	531	530	530	531	531	532	532	533	535	536	538	539	540				
165	549	549	549	549	550	551	551	552	553	553	554	555	556	557	558				
170	565	565	565	566	566	567	567	568	568	568	569	570	570	571	571				
175	577	577	577	577	577	578	578	578	578	578	579	579	579	579	579				
180	582	582	582	582	582	582	582	582	582	582	582	582	582	582	582				

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: MEDIUM  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-02-06

γ Range: 0 - 180DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:8.967m [K=1.1152]  
Remarks: