

SDRC-10W-930-36°



Light Output Ratio:	100.0%	
Luminaire Power:	10.05 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2021-12-20

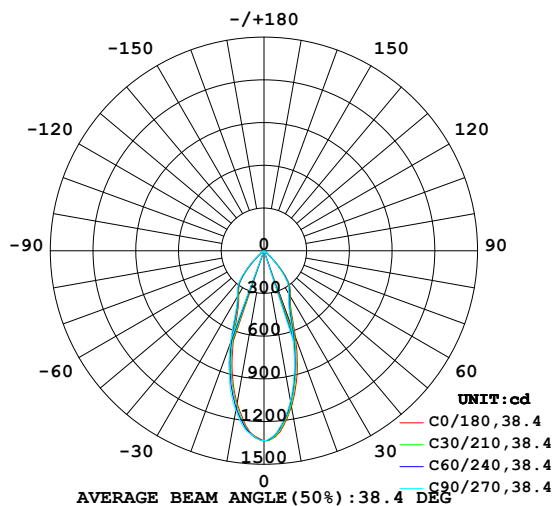
γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [K=1.0000]  
Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

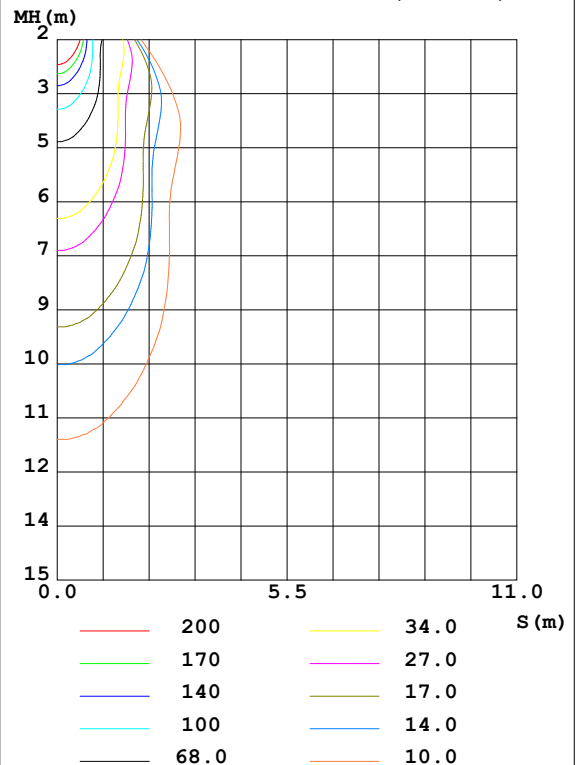
Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDR-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.76 lm/W			
MODEL	3000K	I <sub>max</sub> (cd)	1337	S/MH (C0/180)	0.62
NOMINAL POWER (W)	10	LOR (%)	100.0	S/MH (C90/270)	0.66
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	882.19	η UP, DN (C0-180)	0.0, 47.9
NOMINAL FLUX (lm)	882.189	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	220	η down (%)	100.0	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
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Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-20

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1112	1095	1070	1083	1088	1113	1141	1146	0- 10	115.7	115.7	13.1,13.1
20	644.5	609.3	565.4	573.4	608.0	648.2	690.1	684.0	10- 20	241.4	357.1	40.5,40.5
30	370.6	360.3	345.8	345.6	357.0	366.4	375.9	378.8	20- 30	208.7	565.8	64.1,64.1
40	236.9	221.8	207.0	208.4	224.4	234.9	247.5	253.6	30- 40	191.3	757.1	85.8,85.8
50	35.08	30.98	27.26	28.00	29.94	35.00	47.33	41.46	40- 50	89.35	846.5	95.9,95.9
60	15.80	14.30	12.91	13.30	14.14	15.34	17.45	17.35	50- 60	20.13	866.6	98.2,98.2
70	7.204	6.875	6.776	6.799	7.014	7.344	7.644	7.685	60- 70	10.16	876.7	99.4,99.4
80	0.9534	0.4012	0.4037	0.3933	0.5603	1.348	2.253	1.943	70- 80	5.092	881.8	100,100
90	0.0516	0.0261	0.0314	0.0210	0.0619	0.1513	0.1833	0.1680	80- 90	0.3563	882.2	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 820.01 lm

%lum = 93.0%

%lamp = 93.0%

Conical surface Flux(120deg): 866.58 lm

%lum = 98.2%

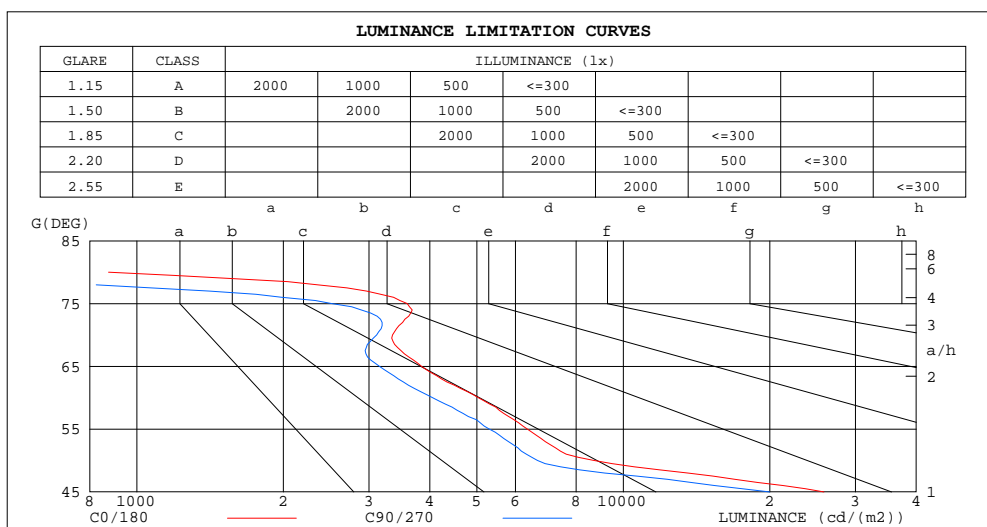
%lamp = 98.2%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDRC-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	557	472
80	874	365
75	3596	2514
70	3354	3111
65	3845	3152
60	5032	4053
55	6348	5299
50	8690	6659
45	25851	19988

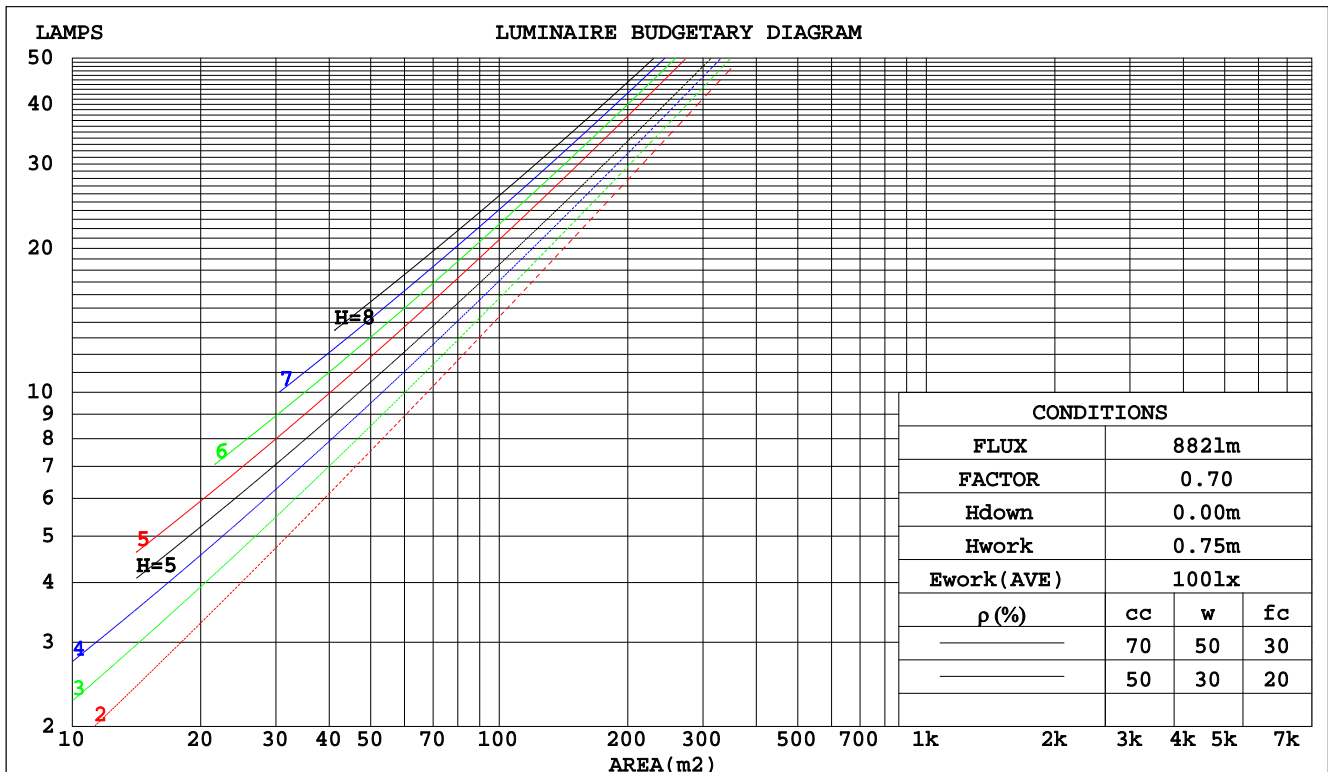
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Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-20

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDRC-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.93	.97	.94	.91	.94	.92	.89	.91	.89	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.88	.85	.82	.86	.83	.81	.79
4.0	.88	.83	.78	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.74
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.68
6.0	.77	.71	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.72	.68	.65	.64
7.0	.73	.67	.62	.72	.66	.62	.71	.66	.62	.70	.65	.61	.68	.64	.61	.60
8.0	.69	.62	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.57	.56
9.0	.65	.59	.55	.64	.59	.55	.63	.58	.54	.62	.58	.54	.62	.57	.54	.53
10.0	.61	.55	.52	.61	.55	.51	.60	.55	.51	.59	.55	.51	.59	.54	.51	.50



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γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDR-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

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	.186	.106	.033	.179	.102	.032	.166	.095	.030	.155	.089	.029	.144	.083	.027		
2.0	.178	.098	.030	.173	.095	.029	.162	.090	.028	.152	.085	.027	.143	.081	.026		
3.0	.170	.090	.027	.165	.088	.027	.156	.085	.026	.147	.081	.025	.140	.077	.024		
4.0	.161	.084	.025	.157	.082	.024	.149	.079	.024	.142	.076	.023	.135	.073	.022		
5.0	.153	.078	.023	.150	.077	.022	.143	.074	.022	.136	.072	.021	.130	.070	.021		
6.0	.146	.073	.021	.143	.072	.021	.137	.070	.020	.131	.068	.020	.126	.066	.020		
7.0	.139	.069	.019	.136	.068	.019	.131	.066	.019	.126	.064	.019	.121	.063	.018		
8.0	.133	.065	.018	.130	.064	.018	.125	.063	.018	.121	.061	.018	.117	.060	.017		
9.0	.127	.061	.017	.124	.061	.017	.120	.059	.017	.116	.058	.017	.112	.057	.016		
10.0	.121	.058	.016	.119	.058	.016	.115	.056	.016	.112	.055	.016	.108	.054	.016		

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.135	.114	.097	.092	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.145	.114	.088	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.135	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.103	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.113	.071	.041	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.107	.065	.035	.092	.056	.031	.064	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.102	.059	.031	.088	.052	.027	.061	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.097	.055	.027	.084	.048	.024	.058	.034	.017	.034	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-20

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm										
NAME: SDRG-10W-930-36°					TYPE:Outdoor Light			SERIAL No.:		
SPEC.:3000K					DIM.: φ90xH110mm					
MFR.: NEKO LIGHTING AG										
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	19.8	20.8	20.0	21.0	21.1	19.2	20.2	19.5	20.4	20.6
3H	19.7	20.7	20.0	20.9	21.1	19.2	20.1	19.4	20.3	20.5
4H	19.7	20.6	20.0	20.8	21.0	19.1	20.0	19.4	20.2	20.5
6H	19.7	20.5	20.0	20.7	21.0	19.1	19.9	19.4	20.1	20.4
8H	19.6	20.4	19.9	20.7	20.9	19.0	19.8	19.3	20.1	20.3
12H	19.6	20.3	19.9	20.6	20.9	19.0	19.7	19.3	20.0	20.3
4H 2H	19.6	20.5	19.9	20.7	20.9	19.1	19.9	19.3	20.1	20.4
3H	19.6	20.3	19.9	20.6	20.9	19.0	19.8	19.4	20.0	20.3
4H	19.6	20.3	20.0	20.6	20.9	19.0	19.7	19.4	20.0	20.3
6H	19.6	20.2	19.9	20.5	20.8	18.9	19.5	19.3	19.9	20.2
8H	19.5	20.1	19.9	20.4	20.8	18.9	19.4	19.3	19.8	20.2
12H	19.5	20.0	19.9	20.3	20.7	18.9	19.4	19.3	19.7	20.1
8H 4H	19.5	20.1	19.9	20.4	20.8	18.9	19.5	19.3	19.8	20.2
6H	19.5	19.9	19.9	20.3	20.7	18.8	19.3	19.3	19.7	20.1
8H	19.4	19.8	19.9	20.2	20.7	18.8	19.2	19.2	19.6	20.1
12H	19.4	19.7	19.8	20.1	20.6	18.7	19.1	19.2	19.5	20.0
12H 4H	19.5	20.0	19.9	20.3	20.7	18.9	19.4	19.3	19.8	20.2
6H	19.4	19.8	19.9	20.2	20.7	18.8	19.2	19.2	19.6	20.1
8H	19.4	19.7	19.8	20.1	20.6	18.7	19.1	19.2	19.5	20.0
Variations with the observer position at spacings:										
S = 1.0H	+ 2.3 / - 6.3					+ 2.3 / - 6.7				
1.5H	+ 4.2 / - 5.8					+ 4.2 / - 5.9				
2.0H	+ 5.9 / - 3.2					+ 5.4 / - 3.1				

CIE Pub.117, 882.2 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = -0.4$ )

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-20

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDRG-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	83	75	71	82	75	71	81	75	71	67
0.80	91	84	80	90	84	80	89	83	79	75
1.00	96	90	86	95	89	85	94	89	85	81
1.25	101	95	91	100	94	91	98	93	90	85
1.50	104	98	95	103	98	94	100	96	93	88
2.00	107	102	99	106	101	98	103	99	97	91
2.50	109	105	101	107	104	101	104	101	99	92
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	107	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

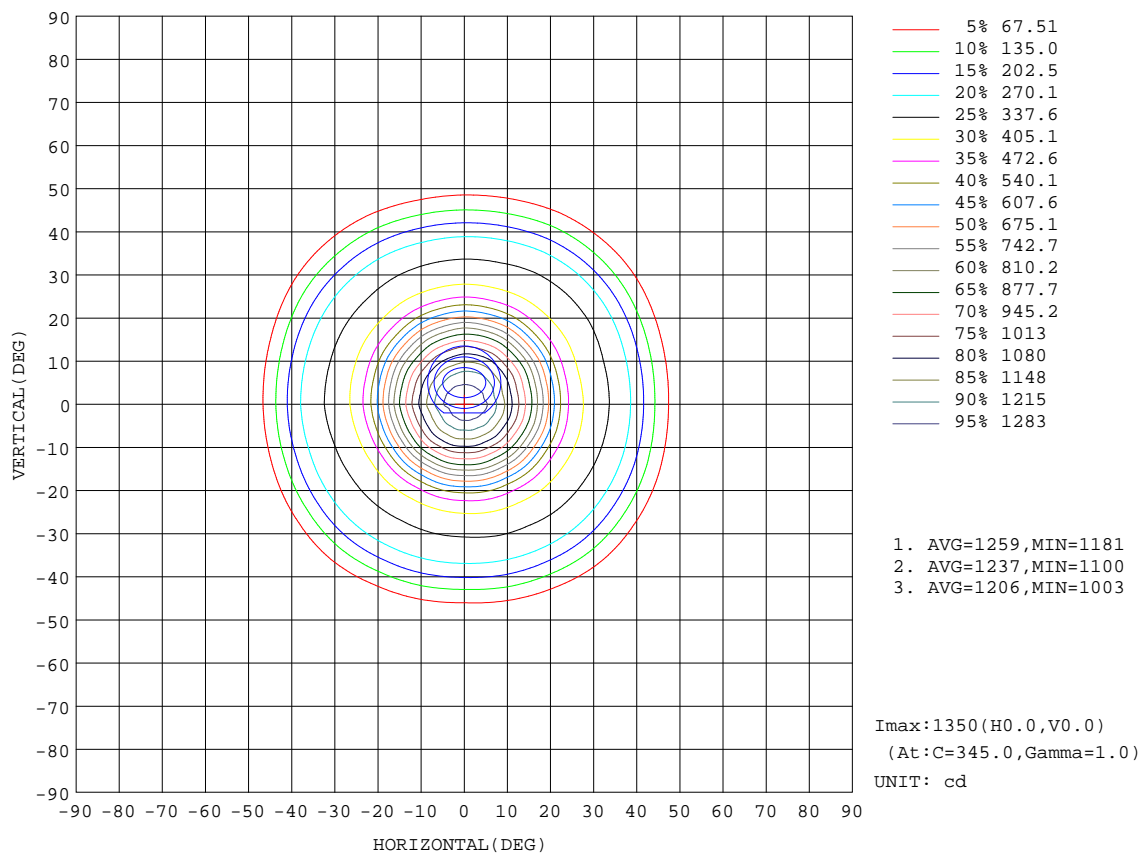
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 Remarks:



ISOCANDELA DIAGRAM

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SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		



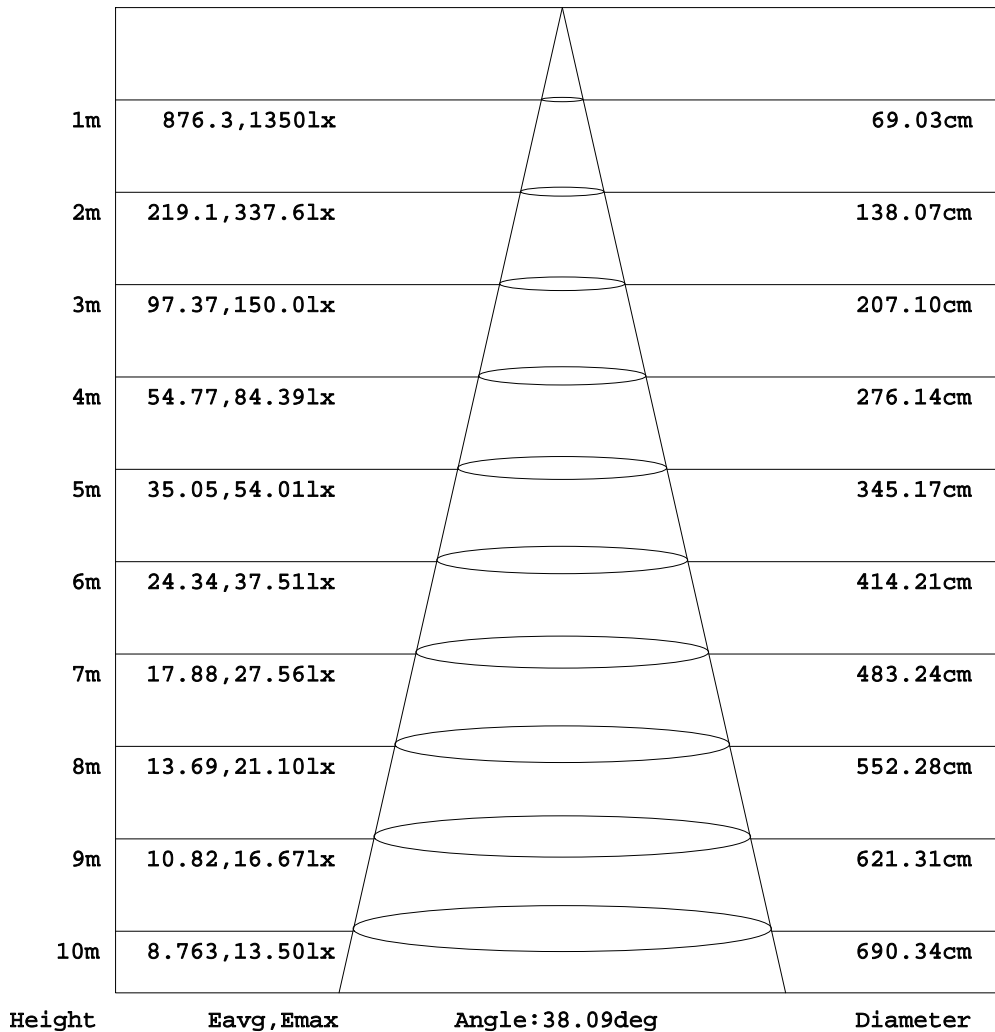
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γ Range: 0 - 90DEG  
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**AAI Figure**

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDRG-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

Flux out:345.2 lm



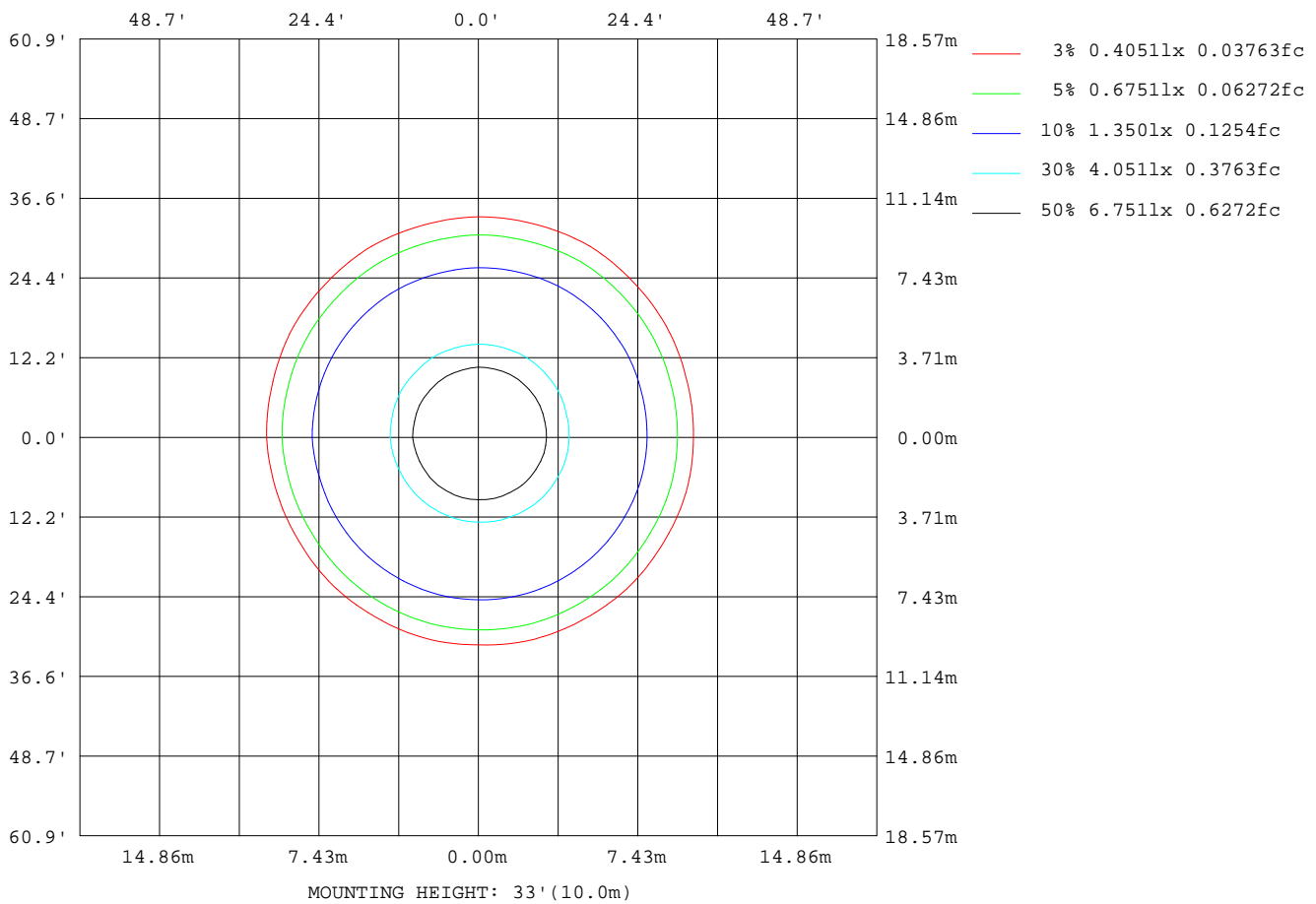
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
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**ISOLUX DIAGRAM**

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDRG-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
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### LED Avg.L Report

Test:U:220.9V I:0.0496A P:10.05W PF:0.9176 Freq:50.09Hz Lamp Flux:882.189x1 lm		
NAME: SDRG-10W-930-36°	TYPE:Outdoor Light	SERIAL No.:
SPEC.:3000K	DIM.: φ90xH110mm	
MFR.: NEKO LIGHTING AG		

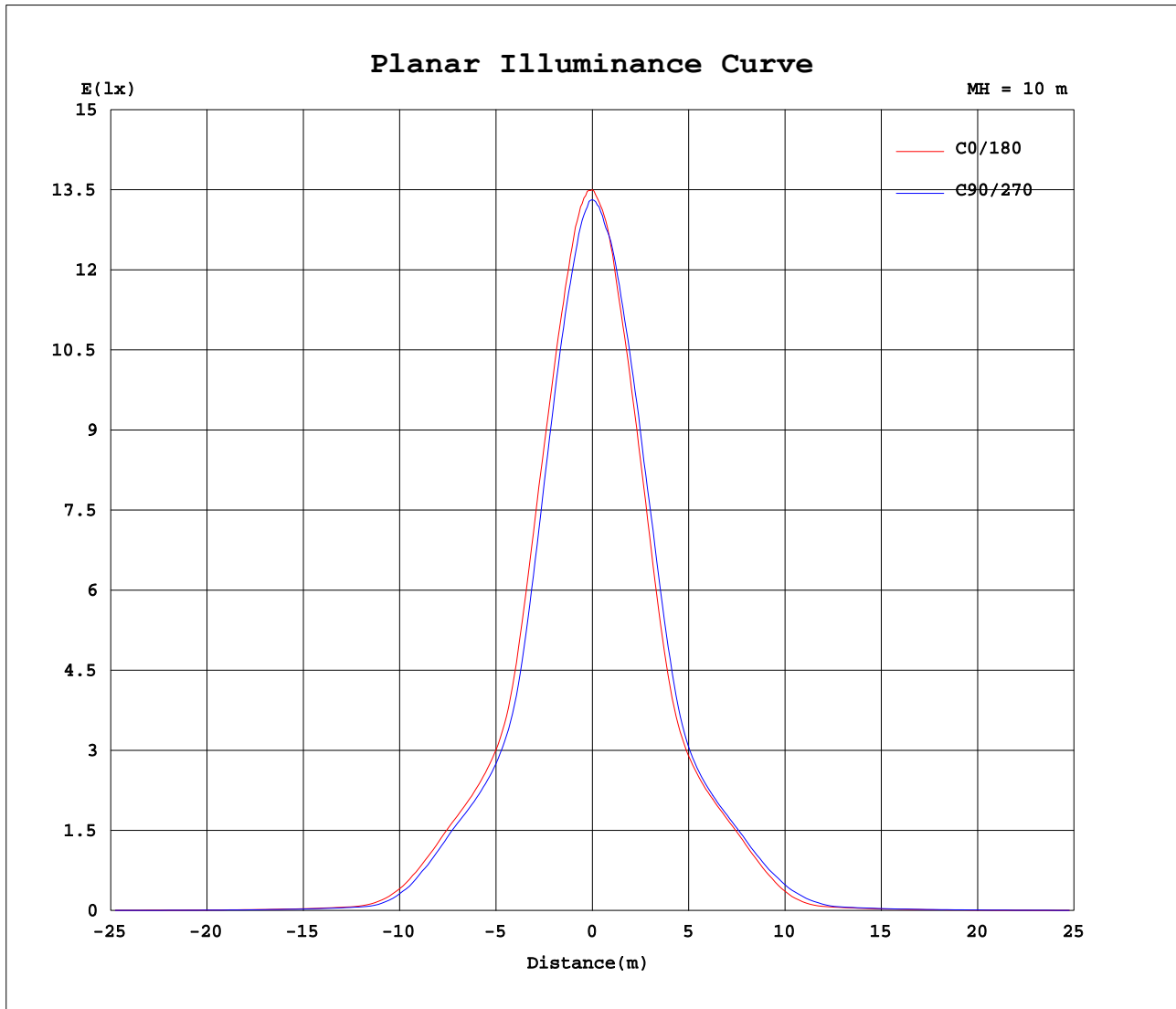
AvgL	cd/m2
L_0~180 (65) av	3635
L_0~180 (75) av	3434
L_0~180 (85) av	522
L_90~270 (65) av	3675
L_90~270 (75) av	3137
L_90~270 (85) av	529
L_45 (65) av	3689
L_45 (75) av	3282
L_45 (85) av	545

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Jason  
Test Date:2021-12-20

γ Range: 0 - 90DEG  
γ Interval: 0.5DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:58%  
Test Distance:8.967m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Jason  
Test Date: 2021-12-20

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 0.5DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity: 58%  
Test Distance: 8.967m [K=1.0000]  
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:58%
Test Distance:8.967m [K=1.0000]
Remarks:

```