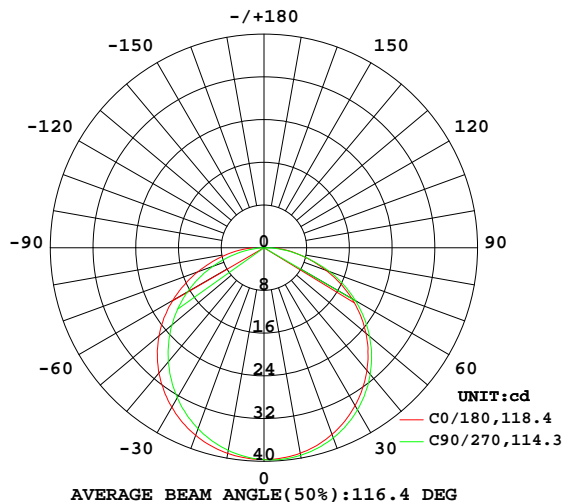


LUMINAIRE PHOTOMETRIC TEST REPORT

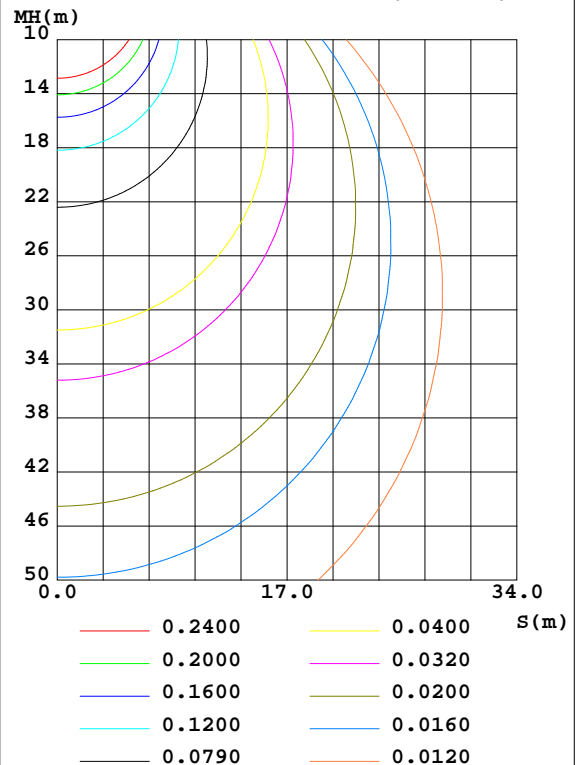
Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:W	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.91 lm/W			
MODEL		Imax(cd)	39.77	S/MH(C0/180)	1.29
NOMINAL POWER(W)	1.51	LOR(%)	100.7	S/MH(C90/270)	1.22
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	120.90	η UP,DN(C0-180)	0.0,52.5
NOMINAL FLUX(lm)	120	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.3
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	100.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:20DEG
Operators:
Test Date:03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.020m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	39.08	39.38	39.47	39.42	39.11	38.73	38.54	38.76	0- 10	3.758	3.758	3.11,3.13
20	37.21	37.80	37.89	37.87	37.39	36.58	36.06	36.52	10- 20	10.81	14.56	12,12.1
30	34.13	34.93	35.04	35.13	34.49	33.28	32.46	33.09	20- 30	16.49	31.05	25.7,25.9
40	30.02	30.90	30.97	31.25	30.63	29.09	27.89	28.70	30- 40	20.09	51.15	42.3,42.6
50	24.92	25.84	25.80	26.36	25.65	24.06	22.48	23.42	40- 50	21.20	72.34	59.8,60.3
60	18.96	19.91	19.75	20.49	19.72	18.26	16.55	17.55	50- 60	19.63	91.97	76.1,76.6
70	12.33	13.28	13.07	13.80	13.18	11.82	10.20	11.17	60- 70	15.54	107.5	88.9,89.6
80	6.127	6.691	6.040	7.237	6.889	5.589	3.946	5.039	70- 80	9.609	117.1	96.9,97.6
90	2.382	1.843	0.1189	1.972	2.204	1.618	0.0041	1.644	80- 90	3.772	120.9	100,101
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): 61.773 lm

%lum = 51.1%

%lamp = 51.5%

Conical surface Flux(120deg): 91.974 lm

%lum = 76.1%

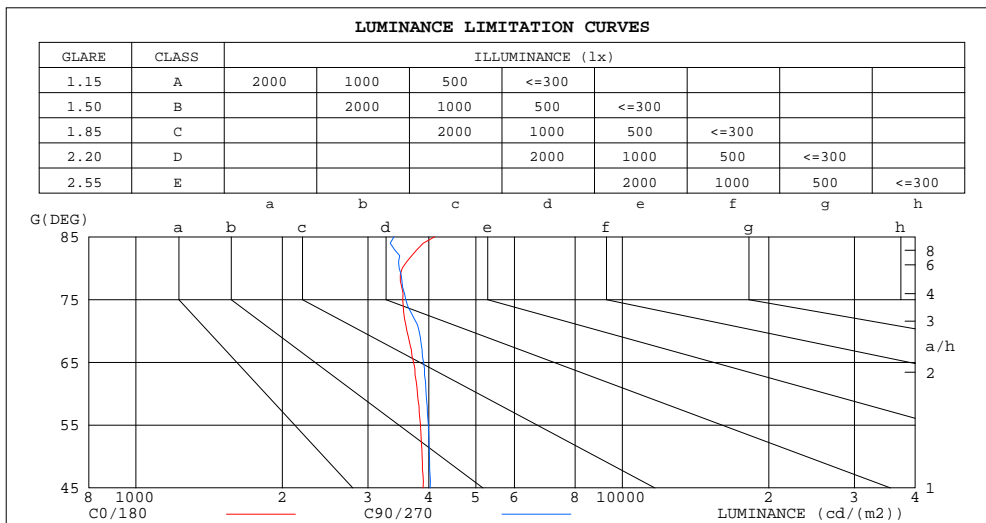
%lamp = 76.6%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:20DEG
 Operators:
 Test Date:03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity:65.0%
 Test Distance:6.020m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:W	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4111	3392
80	3529	3479
75	3536	3588
70	3606	3822
65	3723	3904
60	3793	3951
55	3846	3991
50	3876	4014
45	3894	4024

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 20DEG
Operators:
Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 6.020m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:W	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	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	.332	.189	.060	.325	.185	.059	.311	.179	.057	.299	.172	.055	.287	.167	.054		
2.0	.307	.168	.052	.300	.165	.051	.288	.160	.050	.277	.156	.049	.267	.151	.048		
3.0	.281	.150	.045	.276	.148	.044	.265	.144	.044	.255	.140	.043	.246	.136	.042		
4.0	.258	.134	.039	.253	.132	.039	.244	.129	.039	.235	.126	.038	.227	.123	.038		
5.0	.237	.121	.035	.233	.120	.035	.225	.117	.034	.217	.115	.034	.210	.112	.034		
6.0	.219	.110	.031	.216	.109	.031	.208	.107	.031	.201	.105	.031	.195	.103	.030		
7.0	.204	.101	.029	.200	.100	.028	.194	.098	.028	.188	.096	.028	.182	.094	.028		
8.0	.190	.093	.026	.187	.092	.026	.181	.090	.026	.175	.089	.026	.170	.087	.025		
9.0	.178	.086	.024	.175	.085	.024	.170	.084	.024	.165	.083	.024	.160	.081	.023		
10.0	.167	.080	.022	.164	.079	.022	.160	.078	.022	.155	.077	.022	.151	.076	.022		

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	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.183	.157	.134	.157	.135	.115	.107	.093	.080	.062	.054	.046	.020	.017	.015	
2.0	.175	.133	.097	.150	.114	.084	.103	.079	.059	.059	.046	.034	.019	.015	.011	
3.0	.167	.115	.074	.144	.099	.064	.099	.069	.045	.057	.040	.026	.018	.013	.009	
4.0	.160	.102	.058	.137	.088	.050	.094	.061	.035	.055	.036	.021	.018	.012	.007	
5.0	.152	.091	.047	.131	.079	.041	.090	.055	.029	.052	.032	.017	.017	.011	.006	
6.0	.145	.083	.039	.124	.072	.034	.086	.050	.024	.050	.030	.014	.016	.010	.005	
7.0	.138	.076	.033	.118	.066	.029	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.131	.070	.029	.113	.061	.025	.078	.043	.018	.045	.025	.011	.015	.008	.003	
9.0	.125	.065	.025	.108	.057	.022	.075	.040	.016	.043	.024	.009	.014	.008	.003	
10.0	.119	.061	.022	.103	.053	.020	.071	.037	.014	.042	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators:
 Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.020m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm											
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light						WEIGHT:					
SPEC.:W						DIM.: 0.3m			SERIAL No.:		
MFR.: Alloy LED						SUR.:			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	25.1	26.7	25.4	26.9	27.1	25.3	26.8	25.5	27.0	27.2	
	3H	26.8	28.2	27.1	28.4	28.7	27.0	28.4	27.3	28.6	28.9
	4H	27.5	28.8	27.8	29.1	29.4	27.7	29.0	28.0	29.3	29.5
	6H	28.1	29.4	28.4	29.6	29.9	28.2	29.5	28.5	29.8	30.0
	8H	28.3	29.6	28.6	29.8	30.1	28.4	29.7	28.7	29.9	30.2
	12H	28.5	29.7	28.9	30.0	30.3	28.5	29.8	28.9	30.0	30.4
4H	2H	25.8	27.2	26.1	27.4	27.7	25.9	27.3	26.2	27.6	27.8
	3H	27.7	28.9	28.0	29.2	29.5	27.8	29.0	28.2	29.3	29.6
	4H	28.5	29.6	28.9	30.0	30.3	28.7	29.8	29.0	30.1	30.4
	6H	29.3	30.3	29.7	30.6	31.0	29.3	30.3	29.8	30.7	31.1
	8H	29.6	30.5	30.0	30.9	31.3	29.6	30.5	30.0	30.9	31.3
	12H	29.9	30.7	30.3	31.1	31.5	29.8	30.7	30.3	31.1	31.5
8H	4H	28.9	29.8	29.3	30.2	30.6	29.0	29.9	29.4	30.3	30.7
	6H	29.8	30.6	30.3	31.0	31.4	29.9	30.7	30.3	31.1	31.5
	8H	30.3	31.0	30.7	31.4	31.9	30.3	31.0	30.7	31.4	31.8
	12H	30.7	31.3	31.2	31.8	32.2	30.6	31.2	31.1	31.7	32.1
12H	4H	28.9	29.8	29.4	30.2	30.6	29.0	29.9	29.5	30.3	30.7
	6H	29.9	30.6	30.4	31.1	31.5	30.0	30.7	30.5	31.1	31.6
	8H	30.5	31.1	30.9	31.5	32.0	30.5	31.0	30.9	31.5	32.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.4					+ 0.1 / - 0.3					

CIE Pub.117, 120.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -7.4$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators:
 Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.020m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:W	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:

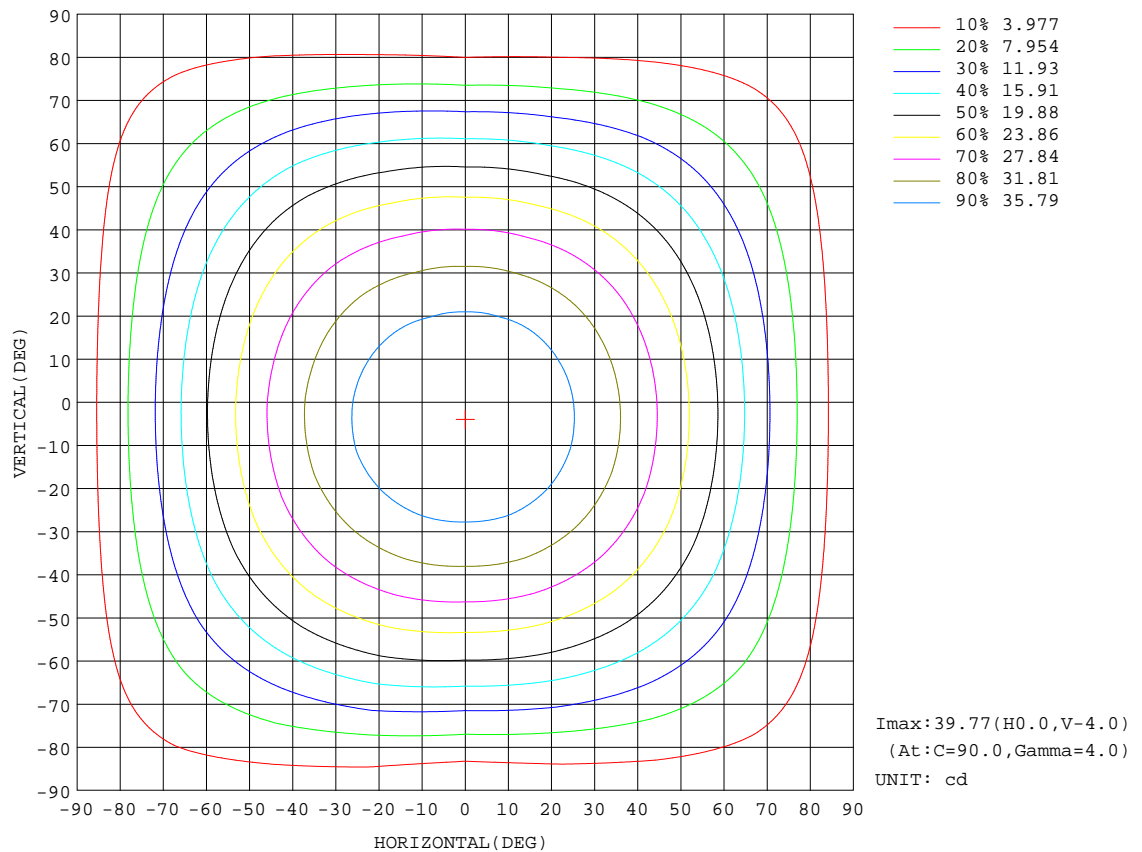
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	57	45	38	56	45	37	55	44	37	31
0.80	67	55	47	66	54	47	64	53	47	39
1.00	75	64	56	74	63	56	72	65	55	48
1.25	82	71	64	81	71	63	78	69	63	55
1.50	87	77	70	86	76	69	83	74	68	60
2.00	94	85	79	93	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	100	93	88	96	90	86	77
4.00	106	100	95	104	98	94	99	95	91	82
5.00	109	103	99	106	102	98	102	98	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators:
 Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.020m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:W	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:



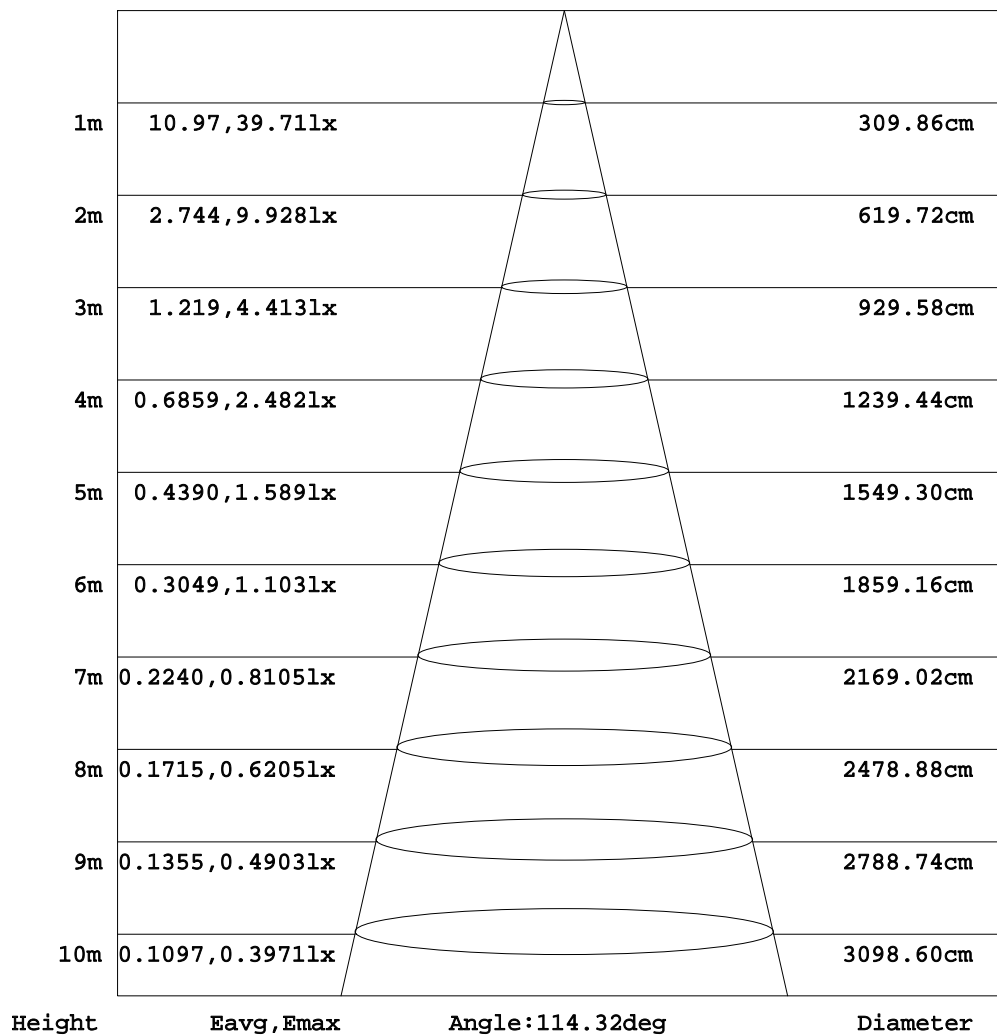
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 20DEG
Operators:
Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 6.020m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:W	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:

Flux out:88.30 lm

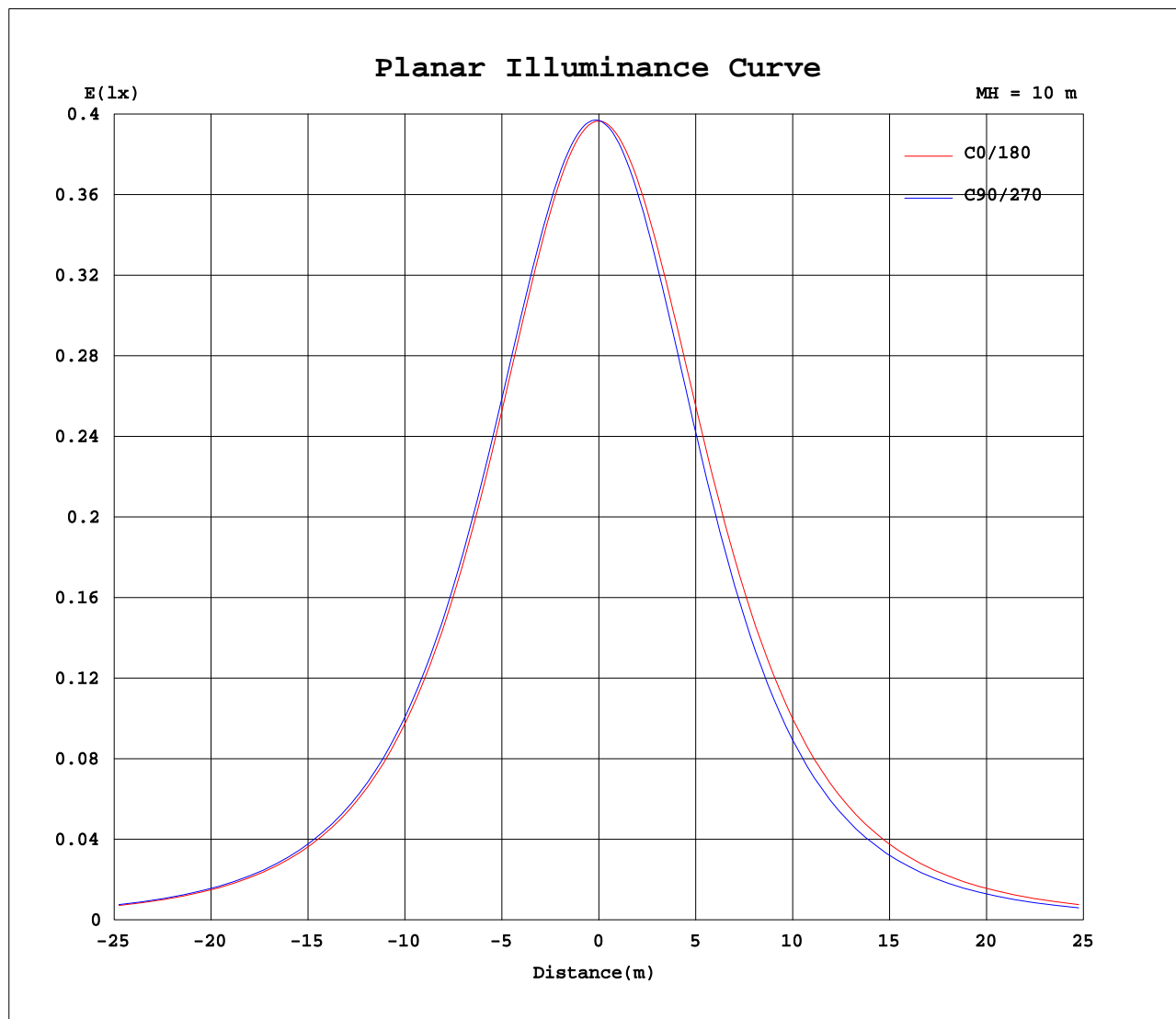


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators:
 Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.020m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 20DEG
Operators:
Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity: 65.0%
Test Distance: 6.020m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.015V I:0.0630A P:1.5129W PF:1.0000 Freq:50.00Hz Lamp Flux:120x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24VTRIP-WELED Tape Light	WEIGHT:	
SPEC.:W	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.366
Humidity:65.0%
Test Distance:6.020m [K=1.0000]
Remarks:

```

Photometric Data Table [cd]

G/C	0.0	22.5	45.0	67.5	90.0	112.5	135.0	157.5	180.0	202.5
0.0	39.66	39.67	39.68	39.68	39.69	39.69	39.70	39.71	39.66	39.67
3.0	39.61	39.67	39.72	39.75	39.76	39.76	39.75	39.71	39.61	39.56
6.0	39.46	39.57	39.66	39.70	39.72	39.71	39.68	39.62	39.46	39.35
9.0	39.19	39.36	39.47	39.53	39.54	39.54	39.50	39.42	39.21	39.03
12.0	38.81	39.03	39.18	39.25	39.25	39.26	39.20	39.11	38.85	38.60
15.0	38.33	38.58	38.77	38.86	38.85	38.87	38.80	38.69	38.40	38.09
18.0	37.70	38.03	38.23	38.34	38.33	38.35	38.29	38.17	37.82	37.46
21.0	36.97	37.34	37.58	37.70	37.68	37.72	37.66	37.53	37.14	36.72
24.0	36.13	36.54	36.81	36.95	36.93	36.98	36.93	36.79	36.37	35.90
27.0	35.18	35.63	35.92	36.09	36.04	36.11	36.09	35.94	35.49	34.95
30.0	34.13	34.62	34.93	35.11	35.04	35.15	35.13	34.98	34.49	33.92
33.0	33.00	33.52	33.83	34.02	33.94	34.08	34.08	33.93	33.41	32.79
36.0	31.75	32.32	32.62	32.81	32.71	32.90	32.90	32.77	32.25	31.59
39.0	30.43	31.03	31.31	31.51	31.38	31.62	31.64	31.53	31.00	30.30
42.0	29.03	29.67	29.94	30.12	29.98	30.26	30.31	30.23	29.68	28.94
45.0	27.53	28.18	28.44	28.61	28.46	28.81	28.88	28.79	28.23	27.49
48.0	25.97	26.65	26.91	27.05	26.88	27.29	27.39	27.28	26.70	25.93
51.0	24.37	25.01	25.29	25.39	25.23	25.69	25.82	25.68	25.11	24.32
54.0	22.64	23.30	23.56	23.66	23.49	23.99	24.12	23.97	23.40	22.62
57.0	20.83	21.52	21.76	21.84	21.65	22.24	22.33	22.18	21.59	20.81
60.0	18.96	19.65	19.91	19.97	19.75	20.42	20.49	20.31	19.72	18.95
63.0	17.01	17.72	17.96	18.04	17.79	18.51	18.53	18.36	17.79	17.03
66.0	15.03	15.73	15.98	16.05	15.79	16.54	16.53	16.38	15.81	15.08
69.0	13.02	13.71	13.97	14.03	13.77	14.55	14.50	14.37	13.87	13.12
72.0	11.02	11.65	11.92	11.97	11.53	12.49	12.45	12.34	11.84	11.15
75.0	9.153	9.705	9.894	9.633	9.287	10.31	10.41	10.38	9.936	9.262
78.0	7.267	7.853	7.951	7.640	7.326	8.029	8.462	8.476	8.067	7.428
81.0	5.633	6.058	6.065	5.799	5.425	6.104	6.634	6.712	6.384	5.738
84.0	4.074	4.517	4.463	4.179	3.485	4.448	4.907	5.077	4.735	4.244
87.0	2.672	2.943	2.887	2.626	1.866	2.999	3.321	3.454	3.188	2.864
90.0	2.382	2.337	1.843	1.103	0.1189	1.367	1.972	2.249	2.204	2.075

G/C	225.0	247.5	270.0	292.5	315.0	337.5
0.0	39.68	39.68	39.69	39.69	39.70	39.71
3.0	39.51	39.48	39.49	39.50	39.55	39.60
6.0	39.26	39.17	39.17	39.18	39.28	39.38
9.0	38.87	38.73	38.71	38.74	38.91	39.05
12.0	38.39	38.19	38.15	38.20	38.41	38.61
15.0	37.79	37.53	37.48	37.53	37.81	38.05
18.0	37.09	36.75	36.69	36.75	37.10	37.37
21.0	36.29	35.87	35.77	35.87	36.27	36.57
24.0	35.40	34.90	34.77	34.88	35.31	35.68
27.0	34.39	33.82	33.67	33.79	34.24	34.67
30.0	33.28	32.65	32.46	32.61	33.09	33.57
33.0	32.11	31.42	31.18	31.35	31.85	32.39
36.0	30.84	30.09	29.79	29.99	30.53	31.13
39.0	29.49	28.69	28.34	28.55	29.12	29.77
42.0	28.10	27.23	26.83	27.05	27.66	28.34
45.0	26.63	25.71	25.24	25.47	26.11	26.83
48.0	25.10	24.12	23.60	23.83	24.50	25.23
51.0	23.51	22.50	21.92	22.15	22.86	23.59
54.0	21.81	20.82	20.18	20.41	21.15	21.86
57.0	20.06	19.07	18.38	18.61	19.37	20.06
60.0	18.26	17.28	16.55	16.79	17.55	18.21
63.0	16.37	15.44	14.68	14.93	15.68	16.30
66.0	14.41	13.55	12.76	13.03	13.75	14.33
69.0	12.49	11.65	10.87	11.12	11.84	12.35
72.0	10.51	9.705	8.910	9.193	9.865	10.37
75.0	8.578	7.761	6.989	7.306	7.950	8.491
78.0	6.757	5.873	5.141	5.493	6.173	6.707
81.0	5.049	4.135	3.386	3.825	4.519	5.037
84.0	3.568	2.602	1.745	2.417	3.085	3.660
87.0	2.354	1.498	0.4539	1.337	2.035	2.439
90.0	1.618	0.8323	0.0041	0.8344	1.644	2.200

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 20DEG
 Operators:
 Test Date: 03/13/2017

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.366
 Humidity: 65.0%
 Test Distance: 6.020m [K=1.0000]
 Remarks: