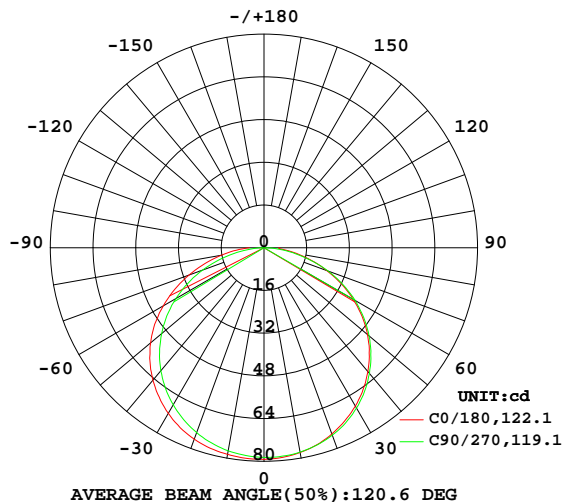


LUMINAIRE PHOTOMETRIC TEST REPORT

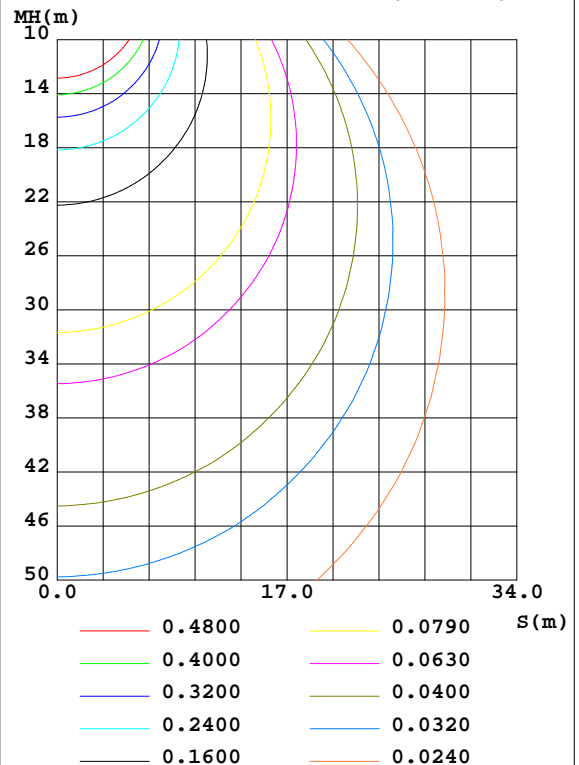
Test:U:24.015V I:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:RGBW	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 40.76 lm/W			
MODEL		Imax(cd)	79.23	S/MH(C0/180)	1.34
NOMINAL POWER(W)	6.00	LOR(%)	100.7	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	251.86	η UP,DN(C0-180)	0.0,50.7
NOMINAL FLUX(lm)	250	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	100.7	CIBSE SHR MAX	1.50

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	77.89	77.63	77.73	77.91	78.61	77.89	77.25	76.80	0- 10	7.458	7.458	2.96,2.98
20	74.24	74.28	74.72	75.53	76.31	75.18	73.71	72.97	10- 20	21.58	29.03	11.5,11.6
30	68.47	68.82	69.28	70.91	71.67	70.43	67.95	67.17	20- 30	33.30	62.34	24.8,24.9
40	60.57	61.09	61.47	64.10	64.79	63.68	60.13	59.20	30- 40	41.19	103.5	41.1,41.4
50	50.63	51.15	51.38	54.92	55.43	54.57	50.06	49.14	40- 50	44.15	147.7	58.6,59.1
60	38.59	39.11	39.30	43.45	43.58	43.15	38.06	37.16	50- 60	41.55	189.2	75.1,75.7
70	25.10	25.35	25.54	29.83	29.88	29.48	24.43	23.65	60- 70	33.32	222.6	88.4,89
80	12.39	11.82	11.02	15.93	16.21	15.24	10.34	10.71	70- 80	20.87	243.4	96.6,97.4
90	5.802	4.258	0.2563	5.092	5.554	4.574	0.0533	4.153	80- 90	8.445	251.9	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): 125.57 lm

%lum = 49.9%

%lamp = 50.2%

Conical surface Flux(120deg): 189.23 lm

%lum = 75.1%

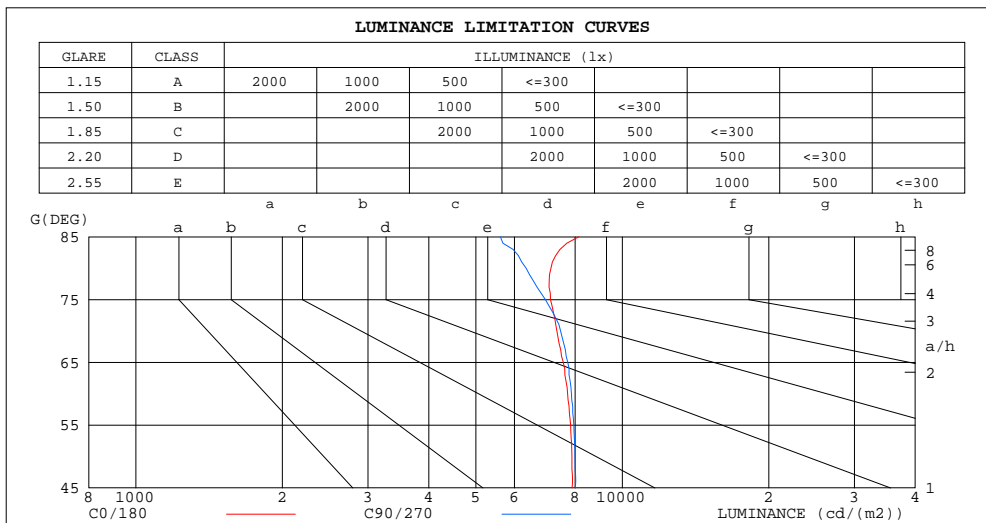
%lamp = 75.7%

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:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:RGBW	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	8133	5613
80	7134	6344
75	7117	6948
70	7338	7466
65	7561	7726
60	7719	7861
55	7828	7952
50	7876	7993
45	7883	8006

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:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:RGBW	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	.338	.192	.061	.331	.189	.060	.317	.182	.058	.305	.176	.056	.293	.170	.055		
2.0	.311	.171	.052	.305	.168	.052	.293	.163	.051	.282	.158	.049	.272	.154	.048		
3.0	.285	.152	.045	.279	.149	.045	.269	.146	.044	.259	.142	.043	.250	.138	.043		
4.0	.261	.136	.040	.256	.134	.040	.246	.131	.039	.238	.128	.039	.230	.125	.038		
5.0	.240	.122	.035	.235	.121	.035	.227	.118	.035	.219	.116	.034	.212	.113	.034		
6.0	.221	.111	.032	.218	.110	.032	.210	.108	.031	.203	.106	.031	.197	.104	.031		
7.0	.205	.102	.029	.202	.101	.029	.195	.099	.028	.189	.097	.028	.183	.095	.028		
8.0	.191	.094	.026	.188	.093	.026	.182	.091	.026	.177	.090	.026	.172	.088	.026		
9.0	.179	.087	.024	.176	.086	.024	.171	.084	.024	.166	.083	.024	.161	.082	.024		
10.0	.168	.081	.022	.165	.080	.022	.161	.079	.022	.156	.078	.022	.152	.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	.133	.157	.135	.115	.107	.093	.079	.062	.054	.046	.020	.017	.015	
2.0	.176	.133	.097	.151	.114	.084	.103	.079	.058	.060	.046	.034	.019	.015	.011	
3.0	.168	.115	.073	.144	.099	.063	.099	.069	.044	.057	.040	.026	.018	.013	.009	
4.0	.160	.102	.057	.138	.088	.050	.095	.061	.035	.055	.036	.021	.018	.012	.007	
5.0	.153	.092	.046	.131	.079	.040	.090	.055	.028	.052	.032	.017	.017	.011	.006	
6.0	.145	.083	.039	.125	.072	.034	.086	.050	.024	.050	.030	.014	.016	.010	.005	
7.0	.138	.076	.033	.119	.066	.029	.082	.046	.020	.048	.027	.012	.015	.009	.004	
8.0	.132	.070	.028	.113	.061	.025	.078	.043	.018	.046	.025	.010	.015	.008	.003	
9.0	.125	.065	.025	.108	.057	.022	.075	.040	.015	.044	.024	.009	.014	.008	.003	
10.0	.120	.061	.022	.103	.053	.019	.071	.037	.014	.042	.022	.008	.014	.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:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm											
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light						WEIGHT:					
SPEC.:RGBW						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		24.8	26.4	25.1	26.6	26.8	24.9	26.5	25.2	26.7	26.9
3H		26.5	27.9	26.8	28.2	28.4	26.5	28.0	26.8	28.2	28.5
4H		27.2	28.6	27.5	28.8	29.1	27.2	28.6	27.5	28.8	29.1
6H		27.8	29.1	28.1	29.3	29.6	27.7	29.0	28.0	29.3	29.5
8H		28.0	29.3	28.3	29.6	29.8	27.8	29.1	28.2	29.4	29.7
12H		28.2	29.4	28.6	29.7	30.0	27.9	29.2	28.3	29.5	29.8
4H 2H		25.5	26.9	25.8	27.1	27.4	25.5	26.9	25.9	27.2	27.4
3H		27.3	28.6	27.7	28.9	29.2	27.4	28.6	27.7	28.9	29.2
4H		28.2	29.3	28.6	29.6	30.0	28.2	29.3	28.5	29.6	29.9
6H		28.9	29.9	29.3	30.3	30.6	28.8	29.8	29.2	30.1	30.5
8H		29.2	30.1	29.6	30.5	30.9	29.0	29.9	29.4	30.3	30.7
12H		29.5	30.3	29.9	30.7	31.1	29.1	30.0	29.6	30.4	30.8
8H 4H		28.5	29.4	28.9	29.8	30.2	28.5	29.4	28.9	29.8	30.2
6H		29.4	30.2	29.8	30.6	31.0	29.2	30.0	29.7	30.4	30.9
8H		29.8	30.5	30.3	30.9	31.4	29.6	30.3	30.0	30.7	31.1
12H		30.2	30.8	30.7	31.3	31.8	29.8	30.4	30.3	30.9	31.4
12H 4H		28.5	29.4	28.9	29.8	30.2	28.5	29.4	28.9	29.7	30.2
6H		29.5	30.2	29.9	30.6	31.1	29.3	30.0	29.8	30.5	30.9
8H		30.0	30.6	30.4	31.0	31.5	29.7	30.3	30.2	30.8	31.2
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		+ 0.1 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 250.0 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -4.8$)

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:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:RGBW	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:

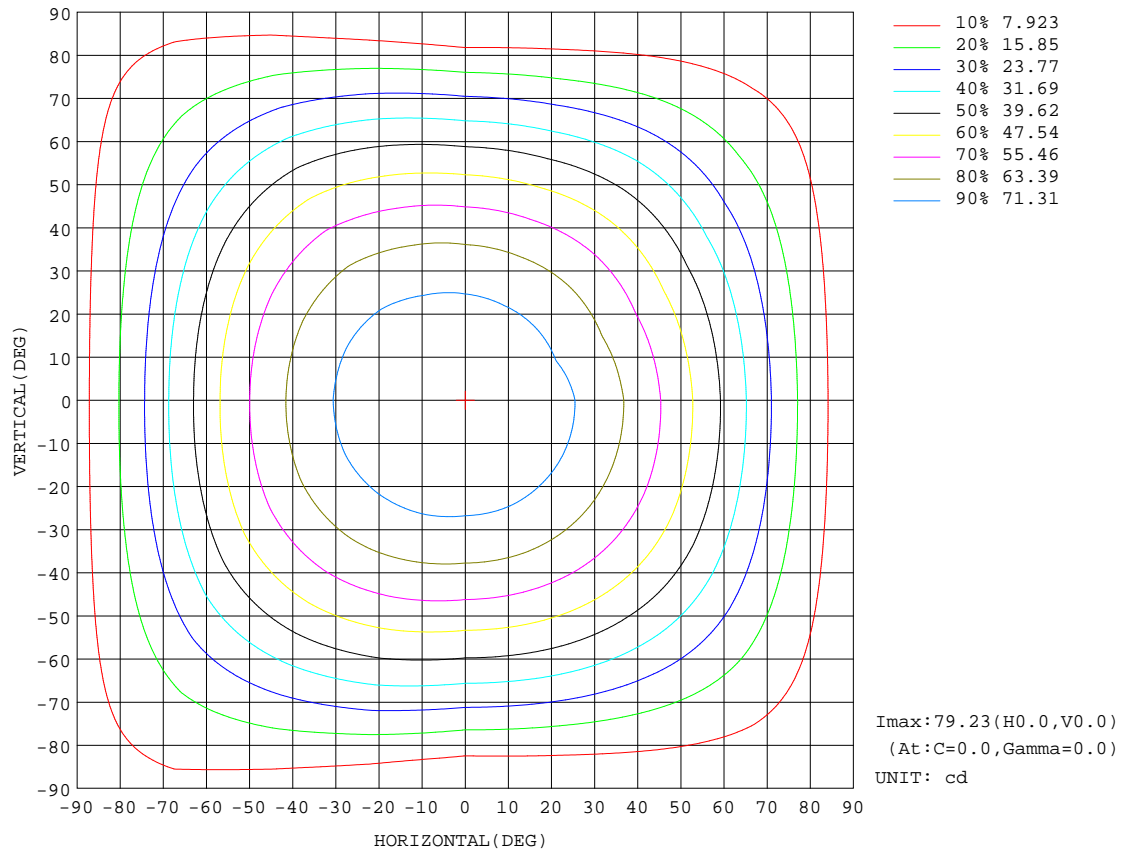
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	36	30
0.80	66	54	46	65	53	46	63	53	46	38
1.00	74	63	55	73	62	55	71	64	54	47
1.25	82	71	63	80	70	63	77	68	62	54
1.50	87	76	69	85	75	68	82	74	67	59
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	83	96	88	82	92	86	80	72
3.00	102	94	88	99	93	87	95	90	85	76
4.00	106	100	95	103	98	93	99	94	90	81
5.00	108	103	99	106	101	97	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 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:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:RGBW	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:



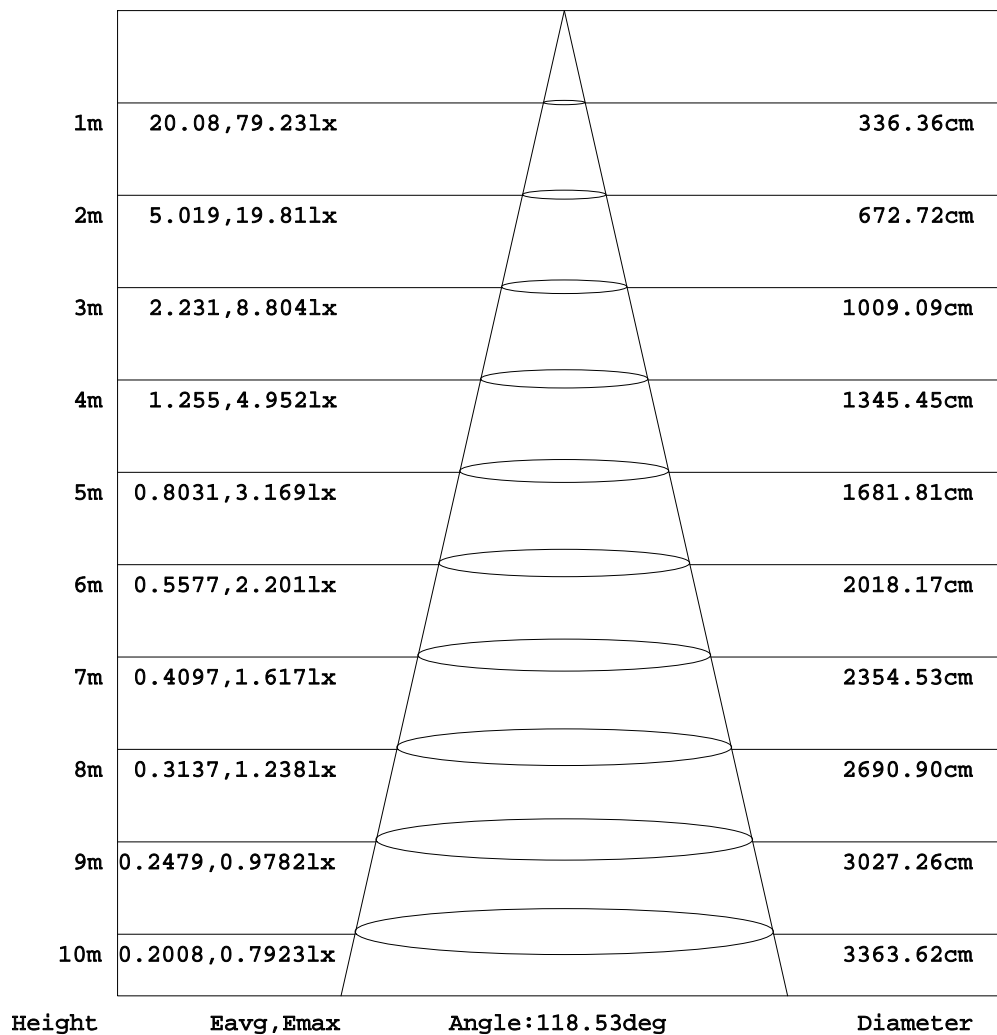
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 20DEG
Operators:
Test Date: 03/13/2017

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:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24V RGB-W LED Tape Light	WEIGHT:	
SPEC.:RGBW	DIM.: 0.3m	SERIAL No.:
MFR.: Alloy LED	SUR.:	Shielding Angle:

Flux out:189.2 lm

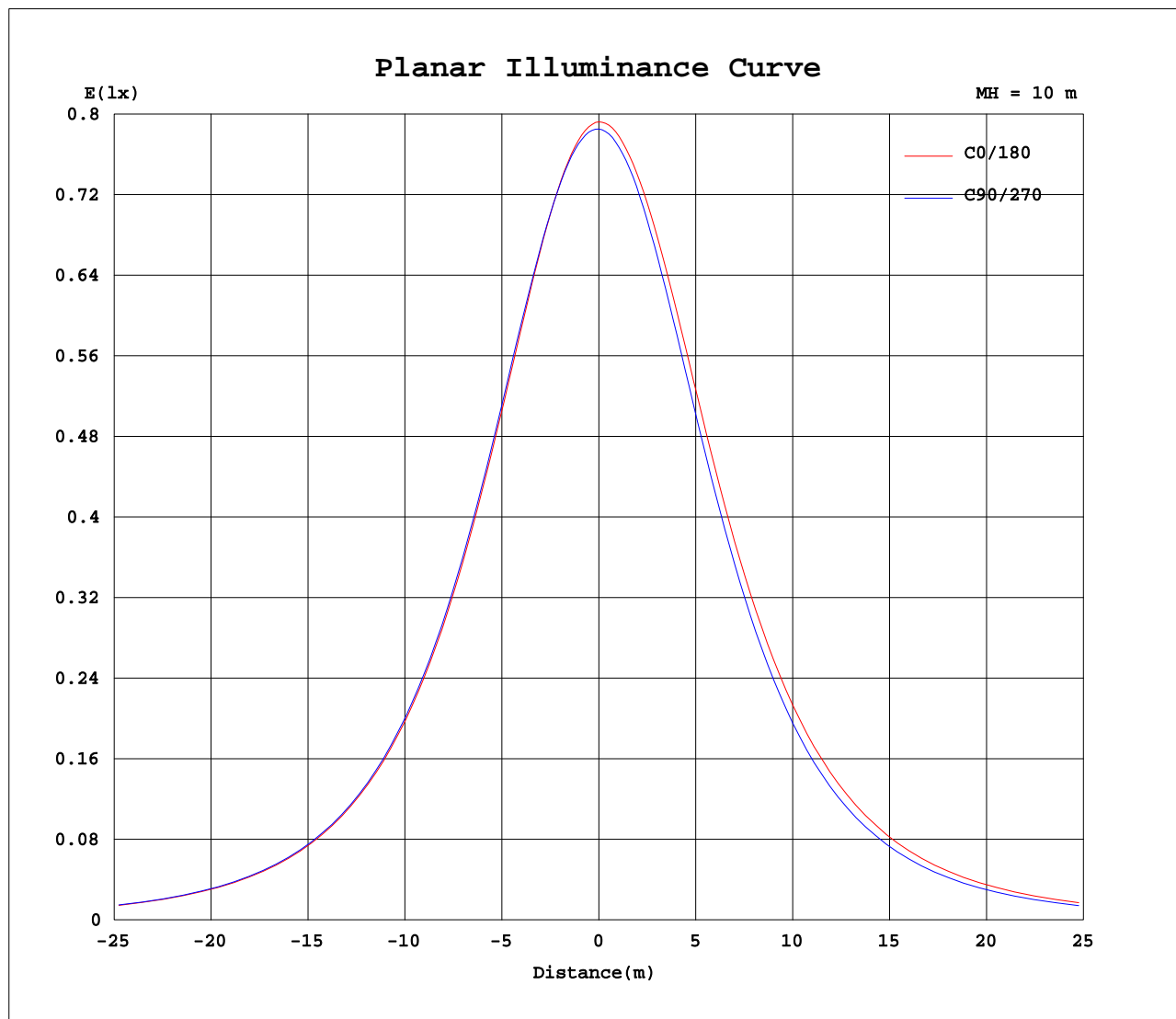


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.2573A P:6.1791W PF:1.0000 Freq:50.00Hz Lamp Flux:250x1 lm		
NAME: Radialux 5.9 Wet Location(4-in-one chip)-24VTRB-WELED Tape Light	WEIGHT:	
SPEC.:RGBW	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	79.23	78.98	78.78	78.62	78.52	78.43	78.36	78.33	79.23	78.98
3.0	79.04	78.81	78.64	78.55	78.51	78.48	78.43	78.42	79.23	78.93
6.0	78.67	78.49	78.35	78.27	78.31	78.30	78.26	78.31	79.07	78.73
9.0	78.09	77.98	77.84	77.88	77.92	77.96	78.03	78.02	78.73	78.34
12.0	77.34	77.24	77.15	77.20	77.30	77.47	77.63	77.71	78.32	77.88
15.0	76.42	76.32	76.23	76.38	76.55	76.79	77.01	77.19	77.75	77.19
18.0	75.22	75.18	75.15	75.33	75.53	75.83	76.20	76.45	76.98	76.39
21.0	73.75	73.85	73.84	74.09	74.32	74.72	75.18	75.54	75.99	75.44
24.0	72.17	72.31	72.41	72.72	72.93	73.42	73.94	74.37	74.80	74.27
27.0	70.40	70.51	70.71	71.03	71.19	71.90	72.50	73.02	73.36	72.89
30.0	68.47	68.57	68.82	69.20	69.28	70.10	70.91	71.49	71.67	71.24
33.0	66.33	66.47	66.77	67.07	67.22	68.11	69.05	69.68	69.79	69.42
36.0	63.94	64.16	64.39	64.74	64.88	65.95	67.03	67.69	67.71	67.42
39.0	61.36	61.74	61.87	62.17	62.27	63.57	64.77	65.55	65.51	65.23
42.0	58.68	59.15	59.20	59.49	59.56	61.07	62.41	63.20	63.05	62.82
45.0	55.74	56.29	56.32	56.53	56.61	58.32	59.74	60.59	60.35	60.16
48.0	52.71	53.29	53.27	53.45	53.52	55.39	56.91	57.82	57.42	57.31
51.0	49.54	50.09	50.05	50.16	50.29	52.24	53.84	54.85	54.37	54.28
54.0	46.05	46.69	46.60	46.72	46.77	48.92	50.58	51.61	51.05	51.02
57.0	42.37	43.06	42.89	43.06	43.08	45.45	47.09	48.15	47.33	47.42
60.0	38.59	39.32	39.11	39.31	39.30	41.81	43.45	44.44	43.58	43.71
63.0	34.59	35.31	35.11	35.29	35.28	37.98	39.53	40.51	39.59	39.73
66.0	30.49	31.15	30.97	31.16	31.17	33.92	35.43	36.44	35.46	35.62
69.0	26.43	26.97	26.79	26.94	26.96	29.81	31.26	32.34	31.34	31.43
72.0	22.44	22.84	22.58	22.63	22.57	25.54	27.02	28.13	27.04	27.21
75.0	18.42	18.76	18.43	18.05	17.98	21.12	22.74	23.91	22.86	22.92
78.0	14.71	14.99	14.47	13.76	13.64	16.54	18.58	19.86	18.83	18.97
81.0	11.23	11.47	10.69	9.970	9.715	12.36	14.66	15.97	15.01	14.99
84.0	8.037	8.177	7.557	6.763	5.939	8.791	10.93	12.38	11.46	11.45
87.0	5.683	5.695	5.010	3.981	2.899	5.809	7.779	9.228	8.073	8.274
90.0	5.802	5.494	4.258	2.210	0.2563	3.120	5.092	6.273	5.554	5.714

G/C	225.0	247.5	270.0	292.5	315.0	337.5
0.0	78.78	78.62	78.52	78.43	78.36	78.33
3.0	78.70	78.49	78.34	78.19	78.09	78.07
6.0	78.46	78.18	77.95	77.70	77.68	77.62
9.0	78.06	77.71	77.44	77.13	77.02	76.96
12.0	77.54	77.03	76.68	76.33	76.16	76.12
15.0	76.78	76.22	75.70	75.30	75.13	75.06
18.0	75.96	75.18	74.58	74.12	73.88	73.79
21.0	74.79	73.88	73.23	72.74	72.47	72.29
24.0	73.55	72.45	71.64	71.12	70.89	70.69
27.0	72.04	70.80	69.86	69.40	69.12	68.89
30.0	70.43	68.96	67.95	67.41	67.17	66.89
33.0	68.61	67.00	65.82	65.28	65.01	64.71
36.0	66.56	64.82	63.46	62.86	62.64	62.36
39.0	64.36	62.46	60.93	60.25	60.00	59.80
42.0	61.94	59.92	58.21	57.48	57.26	57.01
45.0	59.34	57.13	55.28	54.58	54.37	54.07
48.0	56.54	54.18	52.14	51.44	51.21	50.97
51.0	53.50	51.12	48.94	48.16	47.98	47.71
54.0	50.23	47.83	45.50	44.67	44.59	44.22
57.0	46.81	44.33	41.84	41.01	40.93	40.57
60.0	43.15	40.66	38.06	37.22	37.16	36.77
63.0	39.25	36.85	34.13	33.30	33.24	32.82
66.0	35.07	32.88	30.02	29.24	29.15	28.71
69.0	30.95	28.73	25.90	25.12	25.09	24.67
72.0	26.56	24.44	21.58	20.92	20.90	20.69
75.0	22.23	20.06	17.26	16.74	16.91	16.82
78.0	17.99	15.72	13.07	12.75	13.16	13.13
81.0	13.98	11.62	8.988	8.993	9.580	9.875
84.0	10.28	7.921	5.250	5.898	6.644	7.094
87.0	7.164	4.890	2.118	3.172	4.443	5.402
90.0	4.574	2.559	0.0533	2.071	4.153	5.656

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: