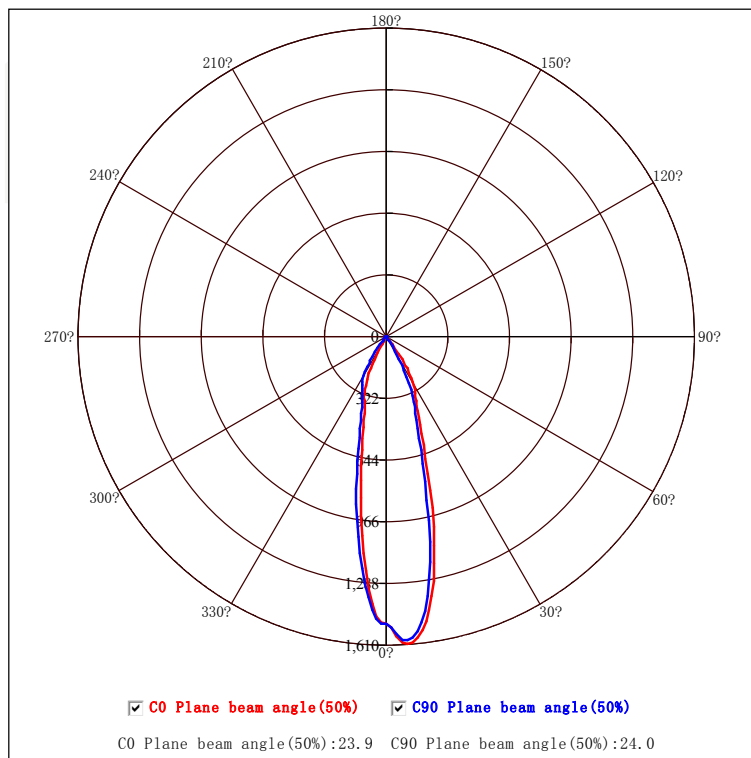


Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm					
Lamp Name: 9W COB LED GARDEN FIXTURE		Lamp Type: SPOTLUX		Weight (kg):	
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162		Lamp Spec:		Shape Size:	
Manufactory: X		Sur (m ²):		Protect Angle (Deg):	
Light Source Data			Photometric Data		
Model		Peak Value (cd)	1612.2	Efficiency (lm/w)	54.7
Nominal P(w)	9.0	Position	0.0, 3.0	UP (C0-C180)	0.0
Rated Volt (v)	220.0	Total Flux (lm)	465.208	Down (C0-C180)	55.6
Rated Flux (lm)	10000.0	Up Flux Rate (%)	0.0	UP (C180-C360)	0.0
Illuminant QTY	1	Dw Flux Rate (%)	100.0	Down (C180-C360)	44.4

Planar Intensity Distribution Curve



Gama Angle Range: -90 - 90 (Deg)

Gama interval (Deg): 1

Temperature (Deg): 26.5

Tester: z

Distance (m): 6.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180 (Deg)

C interval (Deg): 45

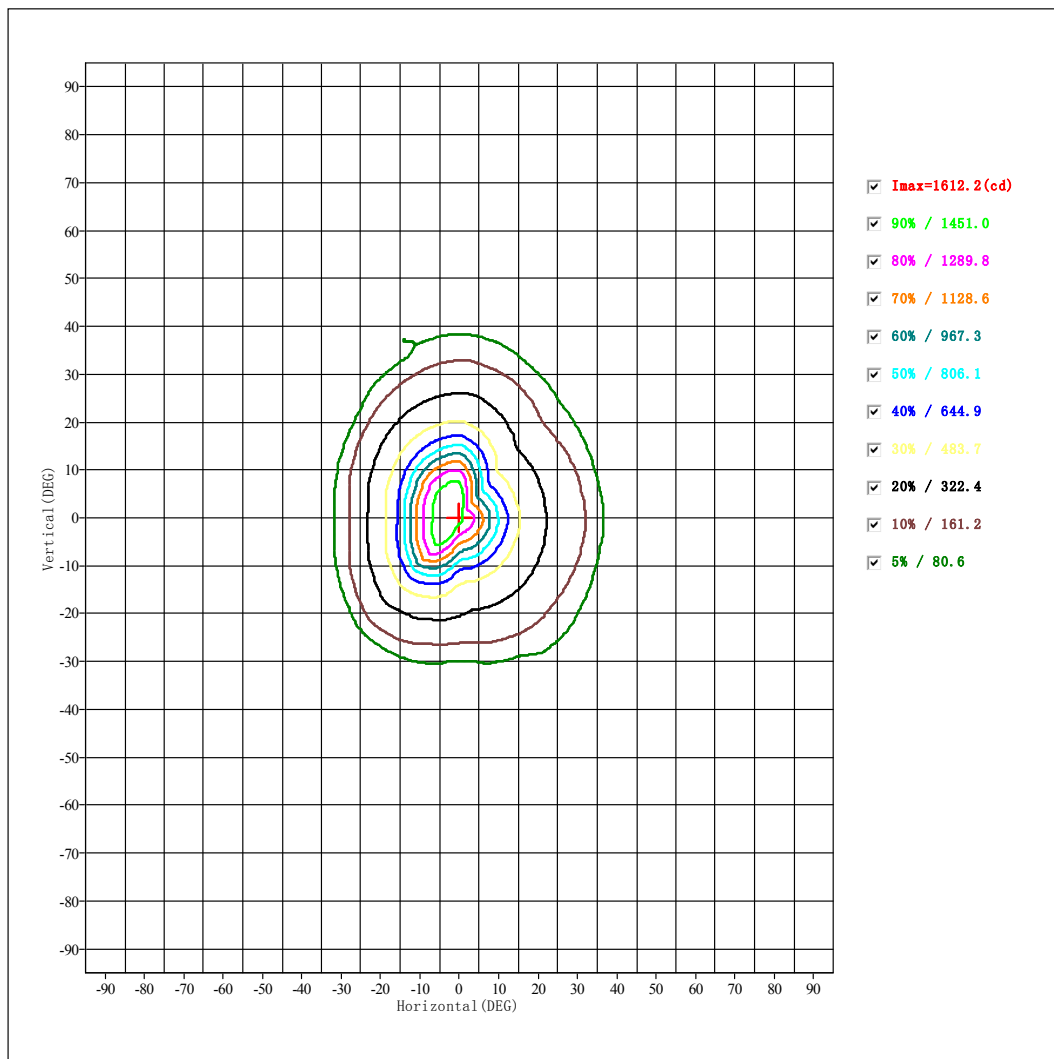
Humidity (%): 60

Date: 2017/9/23

Remark:

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur (m ²):	Protect Angle (Deg):

Planar IsoCandela Curve



Gama Angle Range: -90 - 90 (Deg)

C Angle Range: 0 - 180 (Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature (Deg): 26.5

Humidity (%): 60

Tester: z

Date: 2017/9/23

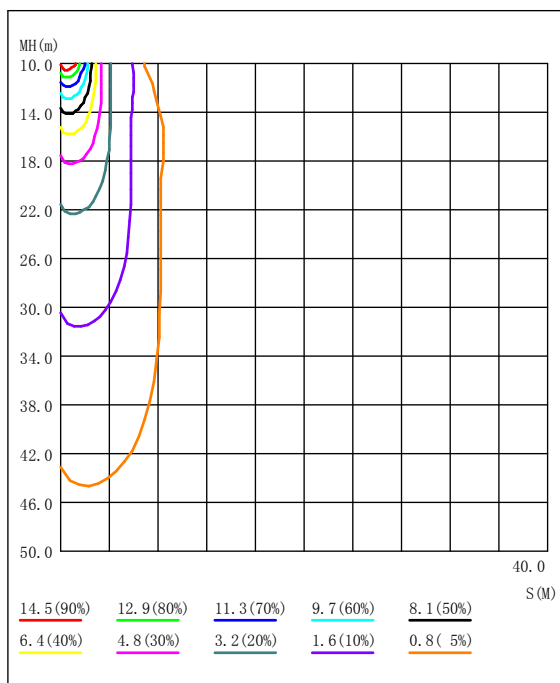
Distance (m): 6.000

Remark:

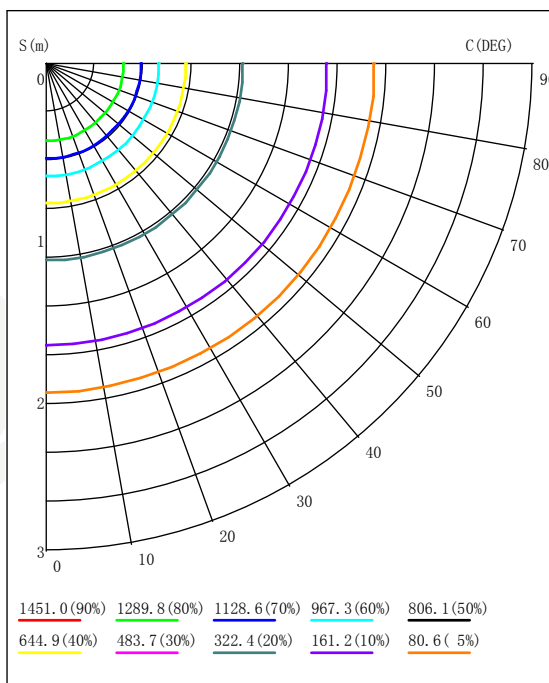
Test System: ZWL Goniophotometer System V3.0

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur(m ²):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range: -90 - 90 (Deg)

Gama interval (Deg): 1

Temperature (Deg): 26.5

Tester: z

Distance (m): 6.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180 (Deg)

C interval (Deg): 45

Humidity (%): 60

Date: 2017/9/23

Remark:

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur (m ²):	Protect Angle (Deg):

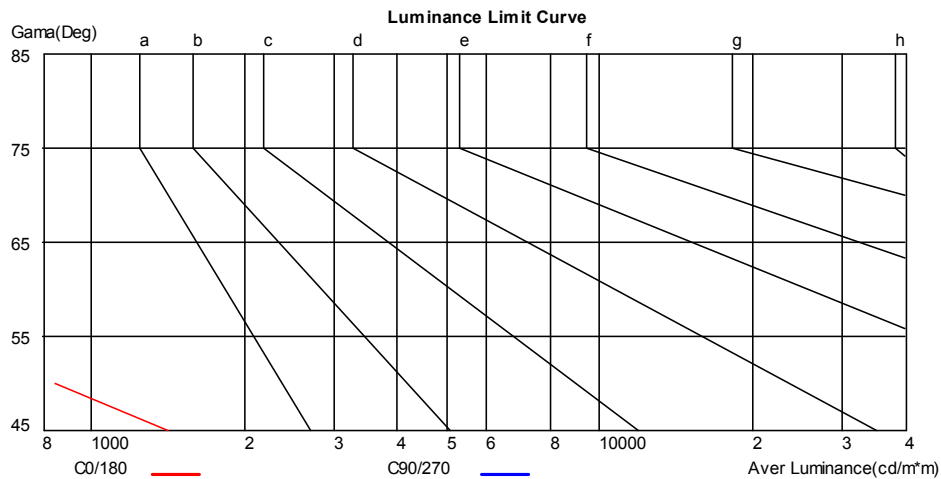
Luminance Limit Curve

Aver Luminance (cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	1418.0	845.6	436.3	207.0	113.0	67.7	37.4	15.1	0.0
C90	680.0	313.9	139.3	61.2	17.3	0.0	0.0	0.0	0.0

Glare

Glare	Class	Illuminance (lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300



Gama Angle Range: -90 - 90 (Deg)

C Angle Range: 0 - 180 (Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature (Deg): 26.5

Humidity (%): 60

Tester: z

Date: 2017/9/23

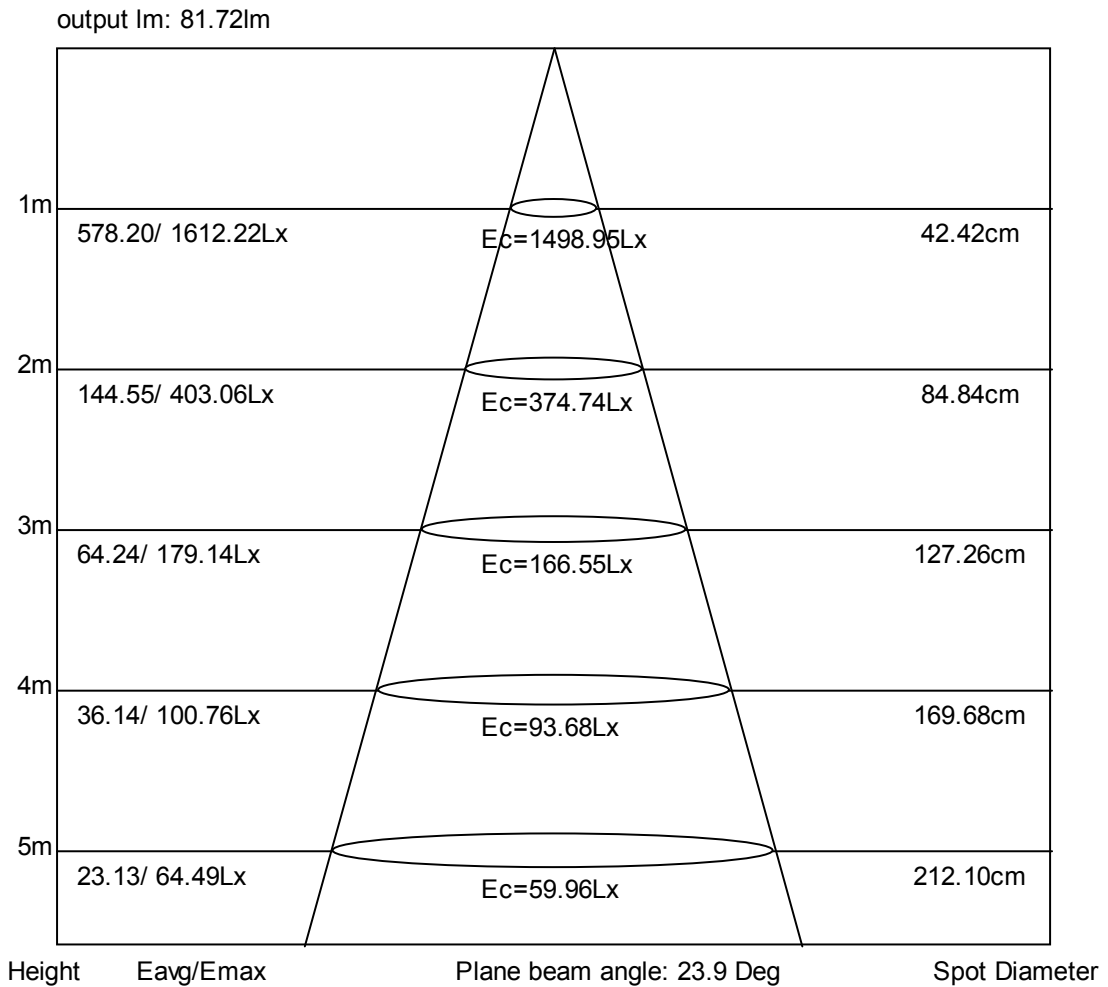
Distance (m): 6.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur (m ²):	Protect Angle (Deg):

Average Illumination



Gama Angle Range:-90 - 90 (Deg)

C Angle Range:0 - 180 (Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature (Deg): 26.5

Humidity (%): 60

Tester: z

Date: 2017/9/23

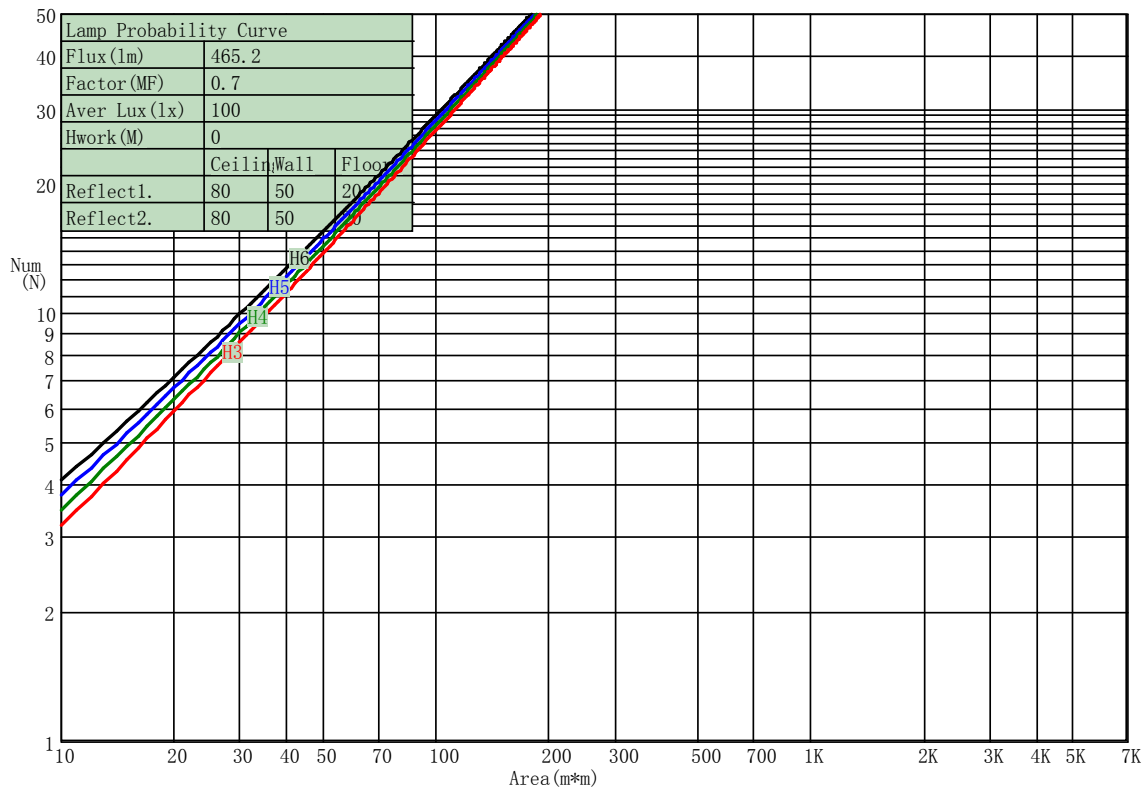
Distance (m): 6.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur (m ²):	Protect Angle (Deg):

Lamp Probability Curve



Gama Angle Range: -90 - 90 (Deg)

C Angle Range: 0 - 180 (Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature (Deg): 26.5

Humidity (%): 60

Tester: z

Date: 2017/9/23

Distance (m): 6.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur (m ²):	Protect Angle (Deg):

UF Table

Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5
Wall	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3
Floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.60	42	25	14	40	24	14	36	22	13
0.80	47	28	16	44	27	15	40	25	14
1.00	51	31	17	48	29	16	43	27	15
1.25	54	34	19	51	32	18	45	29	16
1.50	57	36	20	53	34	19	47	30	17
2.00	61	39	22	56	37	21	49	32	18
2.50	63	41	23	59	39	22	51	34	19
3.00	65	43	24	60	40	23	52	35	20
4.00	67	45	26	62	42	24	53	36	21
5.00	68	47	27	63	43	25	54	37	22

CoEfficients Utilization

Ceiling(%)		80			70			50			30			10	
Wall (%)	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Floor (%)		20			20			20			20			20	
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	1.12	1.1	1.08	1.1	1.08	1.06	1.06	1.05	1.03	1.02	1.01	1	0.99	0.98	0.97
2	1.06	1.03	1	1.04	1.01	0.99	1.01	0.99	0.97	0.98	0.96	0.95	0.96	0.94	0.93
3	1.01	0.97	0.93	0.99	0.96	0.93	0.97	0.94	0.91	0.94	0.92	0.9	0.92	0.9	0.88
4	0.96	0.91	0.88	0.95	0.91	0.87	0.93	0.89	0.86	0.91	0.88	0.85	0.89	0.87	0.85
5	0.91	0.87	0.83	0.91	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.82	0.86	0.83	0.81
6	0.88	0.83	0.79	0.87	0.82	0.79	0.85	0.81	0.79	0.84	0.81	0.78	0.83	0.8	0.78
7	0.84	0.79	0.76	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.75	0.8	0.77	0.74
8	0.81	0.76	0.73	0.8	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.72
9	0.78	0.73	0.7	0.77	0.73	0.7	0.76	0.72	0.69	0.75	0.72	0.69	0.75	0.71	0.69
10	0.75	0.7	0.67	0.74	0.7	0.67	0.74	0.7	0.67	0.73	0.69	0.67	0.72	0.69	0.66

Gama Angle Range: -90 - 90 (Deg)

C Angle Range: 0 - 180 (Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature (Deg): 26.5

Humidity (%): 60

Tester: z

Date: 2017/9/23

Distance (m): 6.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur (m ²):	Protect Angle (Deg):

Wall Exitance CoEfficients

Ceiling (%)		80			70			50			30			10	
Wall (%)	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Floor (%)		20			20			20			20			20	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.15	0.09	0.03	0.14	0.08	0.03	0.13	0.08	0.02	0.12	0.07	0.02	0.11	0.06	0.02
2	0.14	0.08	0.02	0.14	0.08	0.02	0.13	0.07	0.02	0.12	0.07	0.02	0.11	0.06	0.02
3	0.13	0.07	0.02	0.13	0.07	0.02	0.12	0.07	0.02	0.11	0.06	0.02	0.1	0.06	0.02
4	0.13	0.07	0.02	0.12	0.06	0.02	0.11	0.06	0.02	0.11	0.06	0.02	0.1	0.06	0.02
5	0.12	0.06	0.02	0.12	0.06	0.02	0.11	0.06	0.02	0.1	0.05	0.02	0.1	0.05	0.02
6	0.11	0.06	0.02	0.11	0.06	0.02	0.11	0.05	0.02	0.1	0.05	0.02	0.1	0.05	0.01
7	0.11	0.05	0.02	0.11	0.05	0.02	0.1	0.05	0.01	0.1	0.05	0.01	0.09	0.05	0.01
8	0.1	0.05	0.01	0.1	0.05	0.01	0.1	0.05	0.01	0.09	0.05	0.01	0.09	0.05	0.01
9	0.1	0.05	0.01	0.1	0.05	0.01	0.09	0.05	0.01	0.09	0.05	0.01	0.09	0.04	0.01
10	0.1	0.05	0.01	0.09	0.05	0.01	0.09	0.04	0.01	0.09	0.04	0.01	0.08	0.04	0.01

Ceiling Cavity Exitance CoEfficients

Ceiling (%)		80			70			50			30			10	
Wall (%)	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Floor (%)		20			20			20			20			20	
0	0.19	0.19	0.19	0.16	0.16	0.16	0.11	0.11	0.11	0.06	0.06	0.06	0.02	0.02	0.02
1	0.17	0.16	0.15	0.14	0.14	0.13	0.1	0.09	0.09	0.06	0.05	0.05	0.02	0.02	0.02
2	0.15	0.13	0.12	0.13	0.11	0.1	0.09	0.08	0.07	0.05	0.05	0.04	0.02	0.01	0.01
3	0.14	0.11	0.09	0.12	0.1	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01
4	0.13	0.1	0.08	0.11	0.08	0.07	0.07	0.06	0.05	0.04	0.03	0.03	0.01	0.01	0.01
5	0.12	0.09	0.06	0.1	0.07	0.06	0.07	0.05	0.04	0.04	0.03	0.02	0.01	0.01	0.01
6	0.11	0.08	0.05	0.09	0.07	0.05	0.06	0.05	0.03	0.04	0.03	0.02	0.01	0.01	0.01
7	0.1	0.07	0.05	0.09	0.06	0.04	0.06	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.01
8	0.1	0.06	0.04	0.08	0.05	0.03	0.06	0.04	0.02	0.03	0.02	0.01	0.01	0.01	0
9	0.09	0.06	0.03	0.08	0.05	0.03	0.05	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0
10	0.09	0.05	0.03	0.07	0.05	0.03	0.05	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0

Gama Angle Range: -90 - 90 (Deg)

C Angle Range: 0 - 180 (Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature (Deg): 26.5

Humidity (%): 60

Tester: z

Date: 2017/9/23

Distance (m): 6.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg) :
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur(m ²):	Protect Angle(Deg) :

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	1580	1587	1550	1581	1142	1142	1218	1052	0-5	34.1	34.1
10	1299	1296	1197	1351	677	722	808	650	5-10	83.7	118
15	831	794	691	869	415	435	497	410	10-15	93.7	211
20	491	475	428	493	320	331	345	316	15-20	80.6	292
25	351	324	276	343	176	265	289	251	20-25	71.1	363
30	254	151	89.1	172	41	157	213	141	25-30	56.2	419
35	110	22.9	15	28.9	12.5	26.7	101	22.6	30-35	27	446
40	21.3	8.43	10.7	9.2	12.7	16.4	15.2	14.1	35-40	7.54	454
45	14.2	9.82	6.8	10.7	7.15	10	12.2	8.42	40-45	4.42	458
50	8.46	5.68	3.14	6.3	3.47	5.08	6.99	4.14	45-50	3.04	461
55	4.36	2.7	1.39	3	1.75	2.55	3.36	2.17	50-55	1.68	463
60	2.07	1.35	0.61	1.41	1.11	1.56	1.9	1.33	55-60	0.9	464
65	1.13	0.66	0.17	0.64	0.64	1.12	1.35	0.96	60-65	0.53	465
70	0.68	0.21	0	0.16	0.29	0.85	1.09	0.7	65-70	0.33	465
75	0.37	0	0	0	0	0.44	0.85	0.44	70-75	0.2	465
80	0.15	0	0	0	0	0.06	0.44	0.14	75-80	0.1	465
85	0	0	0	0	0	0	0.14	0	80-85	0.03	465
90	0	0.01	0	0	0	0	0.02	0	85-90	0.01	465
95									90-95		
100									95-100		
105									100-105		
110									105-110		
115									110-115		
120									115-120		
125									120-125		
130									125-130		
135									130-135		
140									135-140		
145									140-145		
150									145-150		
155									150-155		
160									155-160		
165									160-165		
170									165-170		
175									170-175		
180									175-180		

Gama Angle Range:-90 - 90(Deg)

C Angle Range:0 - 180(Deg)

Gama interval(Deg): 1

C interval(Deg): 45

Temperature(Deg): 26.5

Humidity(%): 60

Tester: z

Date: 2017/9/23

Distance(m): 6.000

Remark:

Test System: ZWL Goniophotometer System V3.0

Measured Para U: 220.5V I: 80.0mA P: 8.50W PF: 0.482 Test LM: 465.21lm		
Lamp Name: 9W COB LED GARDEN FIXTURE	Lamp Type: SPOTLUX	Weight (kg):
Lamp Model: BT25-00102, BT25-00132, BT25-00152, BT25-00162	Lamp Spec:	Shape Size:
Manufactory: X	Sur (m ²):	Protect Angle (Deg):

CD Table

Gm\C(Deg)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340
5.0	1580	1583	1586	1574	1558	1557	1571	1533	1334	1142	1142	1142	1167	1201	1182	1106	1109	1349
10.0	1299	1298	1297	1264	1218	1230	1301	1278	972	677	696	717	750	789	774	702	721	1015
15.0	831	815	798	760	714	730	811	819	613	415	424	433	455	483	478	439	456	647
20.0	491	484	477	460	438	442	472	474	396	320	325	330	336	342	339	326	336	415
25.0	351	339	327	308	287	291	321	325	249	176	215	255	273	283	280	263	262	307
30.0	254	209	163	131	103	107	145	158	98.5	41	91.6	144	175	201	198	165	154	205
35.0	110	71.8	32.4	20.3	16.7	18.1	24.3	27.1	19.6	12.5	18.7	25.1	51	84.5	83.7	48.3	32.2	71.7
40.0	21.3	15.7	9.84	9.19	10.2	10.4	9.71	9.59	11.2	12.7	14.3	16	16	15.5	15	14.5	14.9	18.2
45.0	14.2	12.3	10.3	8.83	7.46	7.65	9.42	10.3	8.7	7.15	8.42	9.73	10.7	11.7	11.3	9.65	9.05	11.7
50.0	8.46	7.24	5.99	4.85	3.7	3.83	5.27	5.99	4.71	3.47	4.18	4.9	5.71	6.58	6.37	5.08	4.61	6.57
55.0	4.36	3.64	2.88	2.27	1.68	1.75	2.47	2.87	2.3	1.75	2.1	2.46	2.82	3.18	3.1	2.56	2.41	3.4
60.0	2.07	1.76	1.43	1.11	0.77	0.79	1.15	1.38	1.24	1.11	1.3	1.51	1.67	1.83	1.78	1.52	1.41	1.75
65.0	1.13	0.93	0.71	0.5	0.28	0.28	0.49	0.64	0.64	0.64	0.85	1.06	1.19	1.3	1.26	1.09	0.98	1.05
70.0	0.68	0.47	0.26	0.14	0.04	0.03	0.11	0.17	0.23	0.29	0.53	0.78	0.93	1.03	1	0.83	0.7	0.69
75.0	0.37	0.21	0.04	0	0	0	0	0	0	0	0.19	0.39	0.57	0.76	0.76	0.57	0.43	0.4
80.0	0.15	0.09	0.02	0	0	0	0	0	0	0	0.03	0.05	0.19	0.36	0.38	0.24	0.14	0.15
85.0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0.11	0.11	0.04	0	0
90.0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0	0
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
135.0																		
140.0																		
145.0																		
150.0																		
155.0																		
160.0																		
165.0																		
170.0																		
175.0																		
180.0																		

Gama Angle Range: -90 - 90 (Deg)

C Angle Range: 0 - 180 (Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature (Deg): 26.5

Humidity (%): 60

Tester: z

Date: 2017/9/23

Distance (m): 6.000

Remark:

Test System: ZWL Goniophotometer System V3.0