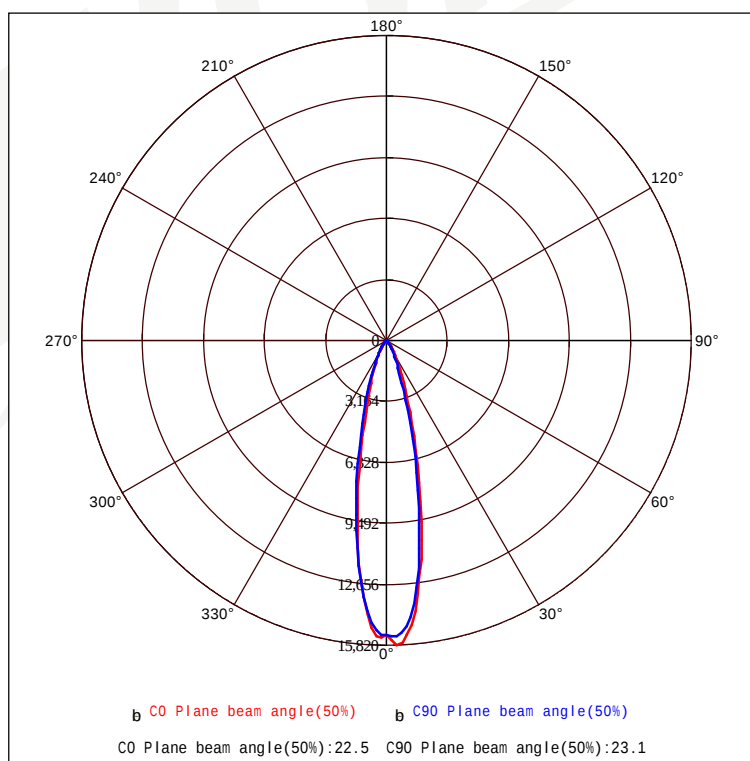


LED TRACK LIGHT

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm						
Lamp Name: LPTRL-30W			Lamp Type:		Weight(kg):	
Lamp ID:			Lamp Spec: LPTRL-30W		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPTRL-30W		Peak Value(cd)	15832.7	Efficiency(lm/w)	123.2
Nominal P(w)		1.0	Position	0.0,1.0	UP(C0-C180)	0.0
Rated Volt(v)		1.0	Total Flux(lm)	3499.253	Down(C0-C180)	53.2
Rated Flux(lm)		1.0	Up Flux Rate(%)	0.0	UP(C180-C360)	0.0
Illuminant QTY		1	Dw Flux Rate(%)	100.0	Down(C180-C360)	46.8

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

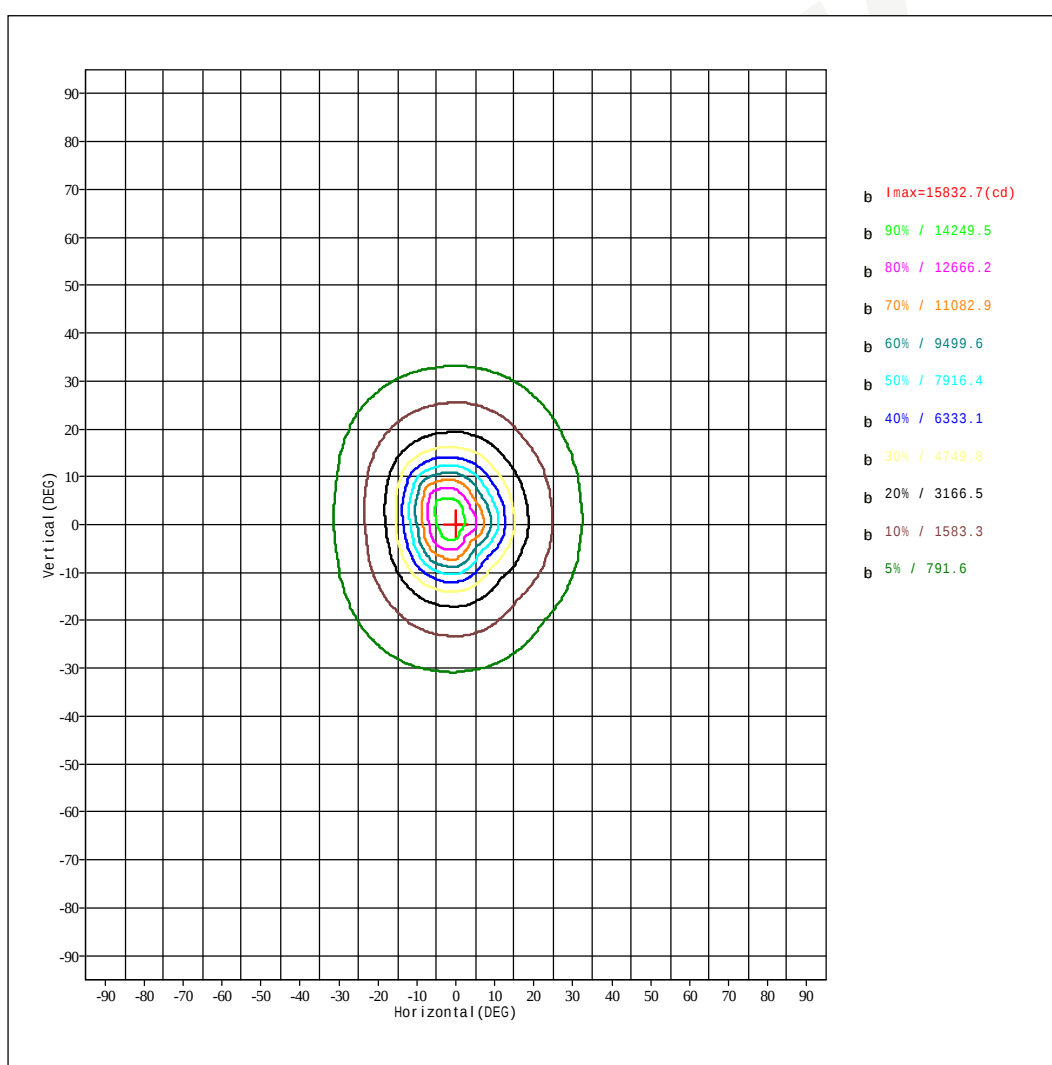
Humidity(%): 60

Date: 2022-5-6

Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

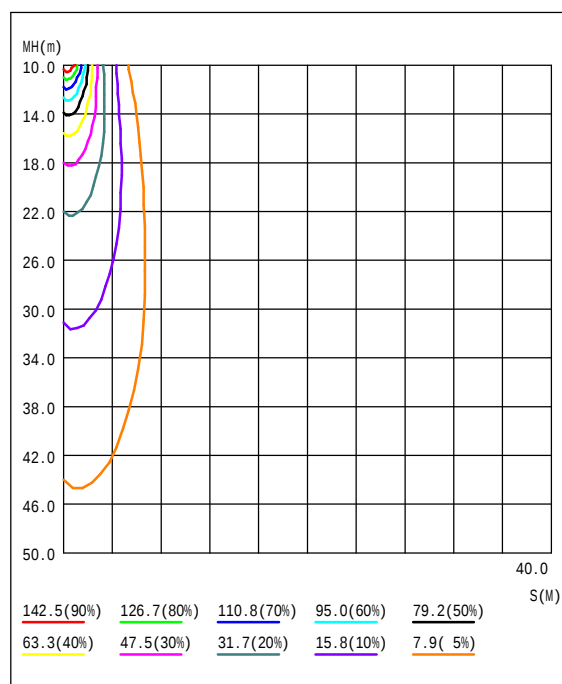
Humidity(%): 60

Date: 2022-5-6

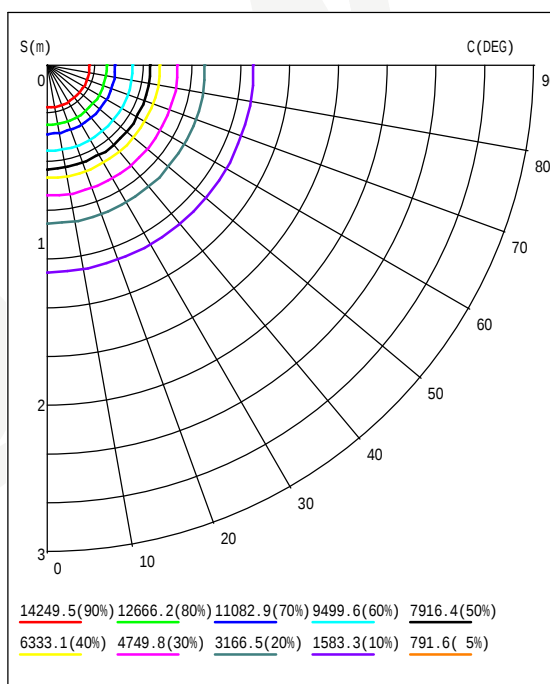
Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2022-5-6

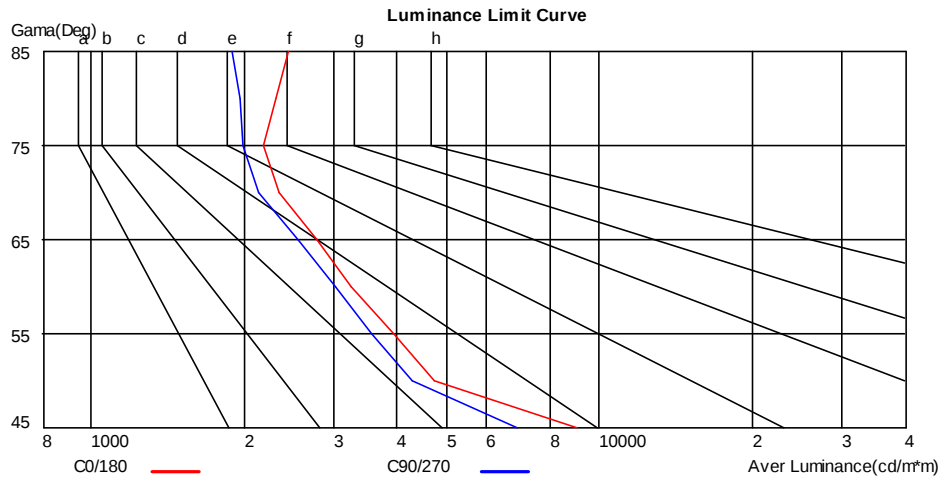
Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

Aver Luminance(cd/m²m)									
Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	9067.5	4731.5	3932.8	3258.2	2775.0	2343.7	2179.8	2305.3	2437.1
C90	6889.6	4278.4	3571.8	3025.3	2553.0	2137.6	1988.5	1963.5	1889.9

Glare									
Glare	Class	Illuminance(lx)							
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
		a	b	c	d	e	f	g	h



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

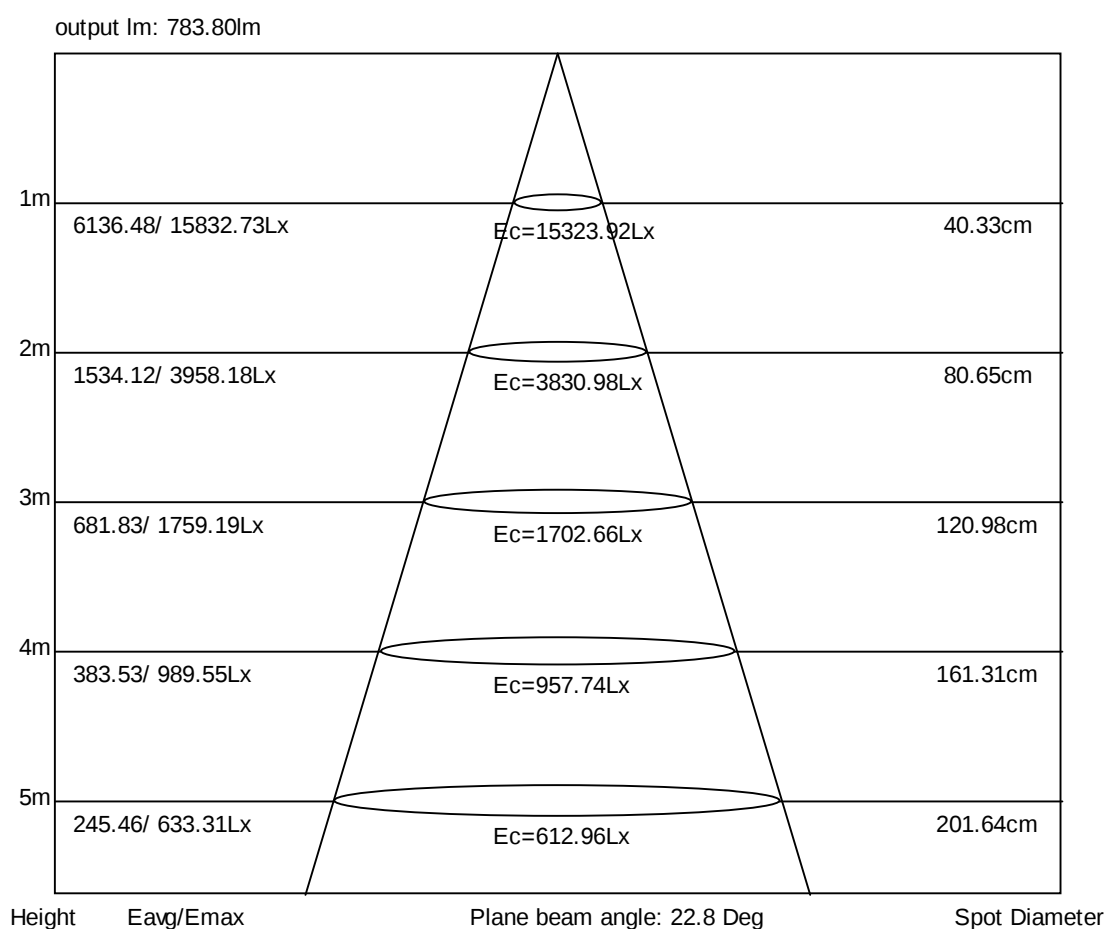
Humidity(%): 60

Date: 2022-5-6

Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Average Illumination



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

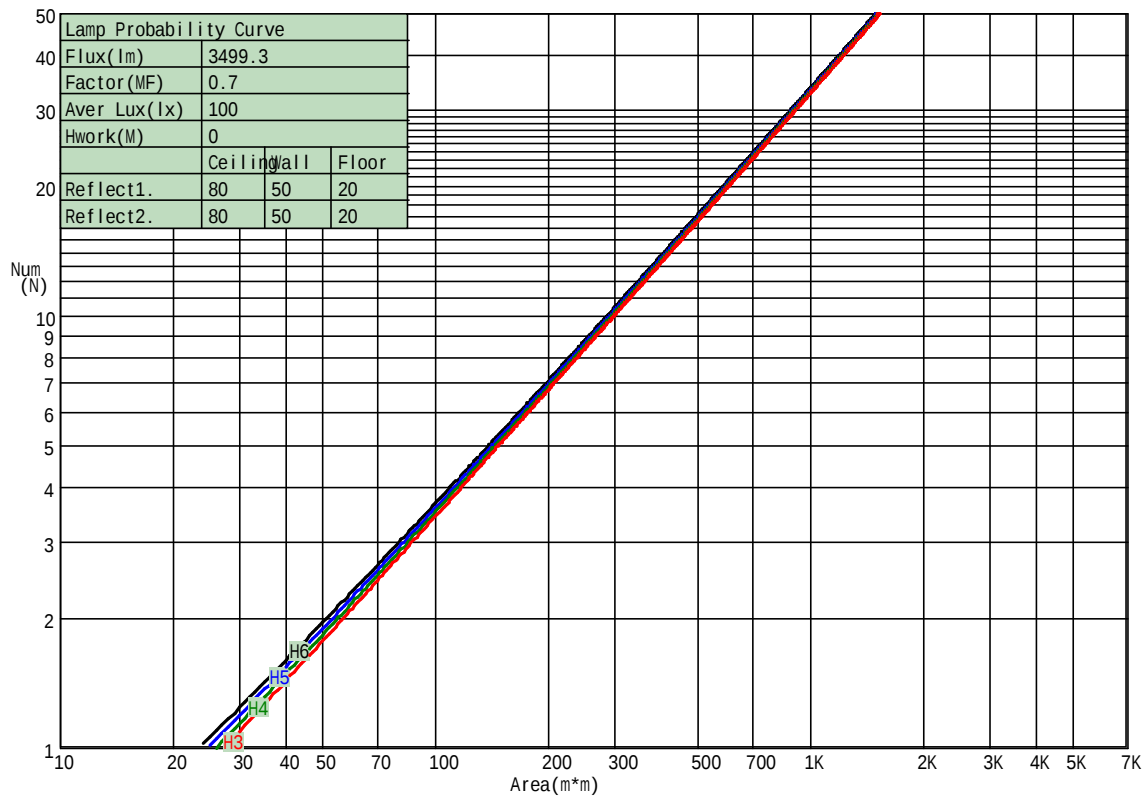
Humidity(%): 60

Date: 2022-5-6

Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2022-5-6

Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	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	37	23	13
0.80	47	28	16	45	27	16	40	25	15
1.00	51	31	18	48	30	17	43	27	16
1.25	55	34	19	51	32	18	45	29	17
1.50	57	36	20	54	34	19	47	31	18
2.00	61	39	22	57	37	21	49	33	19
2.50	63	42	24	59	39	22	51	34	20
3.00	65	43	25	60	40	23	52	35	20
4.00	67	45	26	62	42	25	53	37	22
5.00	69	47	27	64	44	26	54	38	22

CoEfficients Utilization

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			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	1.12	1.1	1.08	1.1	1.08	1.06	1.06	1.04	1.03	1.02	1.01	1	0.99	0.98	0.97
2	1.06	1.03	1	1.05	1.02	0.99	1.01	0.99	0.97	0.98	0.97	0.95	0.96	0.94	0.93
3	1.01	0.97	0.94	1	0.96	0.93	0.97	0.94	0.92	0.95	0.93	0.9	0.93	0.91	0.89
4	0.97	0.92	0.89	0.96	0.92	0.89	0.94	0.9	0.88	0.92	0.89	0.87	0.9	0.88	0.86
5	0.93	0.88	0.85	0.92	0.88	0.85	0.9	0.87	0.84	0.89	0.86	0.83	0.87	0.85	0.83
6	0.89	0.85	0.81	0.89	0.84	0.81	0.87	0.83	0.81	0.86	0.83	0.8	0.85	0.82	0.8
7	0.86	0.82	0.78	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.8	0.77	0.82	0.79	0.77
8	0.83	0.79	0.76	0.83	0.78	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.8	0.77	0.75
9	0.8	0.76	0.73	0.8	0.76	0.73	0.79	0.75	0.73	0.78	0.75	0.73	0.78	0.75	0.72
10	0.78	0.74	0.71	0.78	0.73	0.71	0.77	0.73	0.71	0.76	0.73	0.7	0.76	0.72	0.7

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2022-5-6

Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	Sur(m ²):	Protect Angle(Deg):

Wall Exitance CoEfficients

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

Ceiling Cavity Exitance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall(%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
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	0.09	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	0.07	0.05	0.03	0.05	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0
10	0.08	0.05	0.03	0.07	0.04	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)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2022-5-6

Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	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	14494	15405	14148	13886	12942	11123	12996	12700	0-5	344	344
10	10071	11970	9354	9116	8218	6407	8752	8458	5-10	795	1139
15	5477	6899	4881	4553	4131	3443	4770	4704	10-15	794	1933
20	2910	3282	2222	2289	2251	1904	2659	2628	15-20	576	2509
25	1576	1632	1135	1191	1194	986	1495	1447	20-25	388	2897
30	839	804	564	597	607	495	780	758	25-30	244	3141
35	435	397	284	303	307	227	389	366	30-35	144	3285
40	206	193	141	148	133	87.5	171	162	35-40	78.8	3364
45	90.7	91.4	68.9	68.9	45.4	28.7	51.8	47.2	40-45	38	3402
50	47.3	45.6	42.8	40.6	23.1	18.6	26.3	25.8	45-50	17.6	3419
55	39.3	38.1	35.7	34	16	12.7	18.2	18.6	50-55	12.9	3432
60	32.6	32.5	30.3	28.8	12.3	10.5	12.7	13.3	55-60	11	3443
65	27.8	27.7	25.5	24.8	11.4	9.75	11	11.9	60-65	9.75	3453
70	23.4	24.5	21.4	20	10.8	10.7	9.56	9.99	65-70	8.82	3462
75	21.8	22.4	19.9	18	12.5	12.6	11.2	11.8	70-75	8.44	3470
80	23.1	23.4	19.6	17	14.5	14.6	13	13.9	75-80	8.99	3479
85	24.4	24	18.9	16	16.7	17	15.2	16.2	80-85	9.78	3489
90	24	23	17.7	14.7	19.5	18.6	17.8	17.9	85-90	10.4	3499
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)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2022-5-6

Remark:

Measured Para U: 216.5V I: 194.0mA P: 28.40W PF: 0.675 Test LM: 3499.25lm		
Lamp Name: LPTRL-30W	Lamp Type:	Weight(kg):
Lamp ID:	Lamp Spec: LPTRL-30W	Shape Size:
Manufactory: LIPER	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	14k	15k	15k	15k	14k	14k	14k	14k	13k	13k	12k	11k	12k	13k	13k	13k	13k	14k
10.0	10k	11k	12k	11k	9926	9302	9194	9018	8611	8218	7425	6605	7176	8239	8688	8555	8635	9365
15.0	5477	6099	6744	6237	5322	4809	4660	4507	4316	4131	3830	3518	3878	4480	4756	4726	4789	5139
20.0	2910	3073	3242	2934	2454	2236	2267	2285	2268	2251	2099	1942	2152	2494	2652	2638	2658	2787
25.0	1576	1601	1626	1469	1243	1147	1172	1191	1193	1194	1103	1009	1153	1384	1485	1463	1461	1520
30.0	839	824	808	725	616	571	586	598	603	607	558	507	588	718	775	765	767	803
35.0	435	418	401	360	309	288	297	304	306	307	272	236	280	354	384	374	374	405
40.0	206	200	194	176	152	142	146	147	140	133	113	92.5	115	152	169	165	167	187
45.0	90.7	91	91.4	84	73.8	68.9	68.9	66.4	55.7	45.4	38.1	30.5	36.3	46.8	50.8	48.7	52	71.7
50.0	47.3	46.6	45.8	44.7	43.4	42.3	41.3	38.7	30.8	23.1	21.2	19.1	21.1	24.6	26.2	26	28.2	37.9
55.0	39.3	38.8	38.3	37.3	36.2	35.3	34.5	32	23.9	16	14.6	13.1	14.5	17	18.3	18.4	20.8	30.2
60.0	32.6	32.6	32.5	31.8	30.8	29.9	29.3	27	19.5	12.3	11.5	10.7	11.2	12.2	12.8	13.1	15.4	24.2
65.0	27.8	27.7	27.7	27	26	25.4	25	23.3	17.2	11.4	10.7	9.93	10.2	10.8	11.2	11.6	13.6	20.8
70.0	23.4	23.9	24.4	23.5	22.1	21.1	20.5	19	14.8	10.8	10.7	10.7	10.3	9.81	9.66	9.85	11.5	17.6
75.0	21.8	22.1	22.4	21.6	20.4	19.5	18.6	17.4	14.9	12.5	12.5	12.6	12.1	11.5	11.3	11.6	12.9	17.4
80.0	23.1	23.2	23.3	22.1	20.4	19.1	17.8	16.7	15.6	14.5	14.6	14.6	14.1	13.4	13.2	13.6	14.9	19
85.0	24.4	24.2	24.1	22.4	20	18.3	16.9	16.1	16.4	16.7	16.8	16.9	16.4	15.6	15.4	15.9	17.1	20.8
90.0	24	23.5	23.1	21.2	18.8	17	15.7	15.3	17.4	19.5	19.1	18.7	18.4	18	17.9	17.9	18.6	21.3
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)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: zxcg

Distance(m): 8.000

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2022-5-6

Remark: