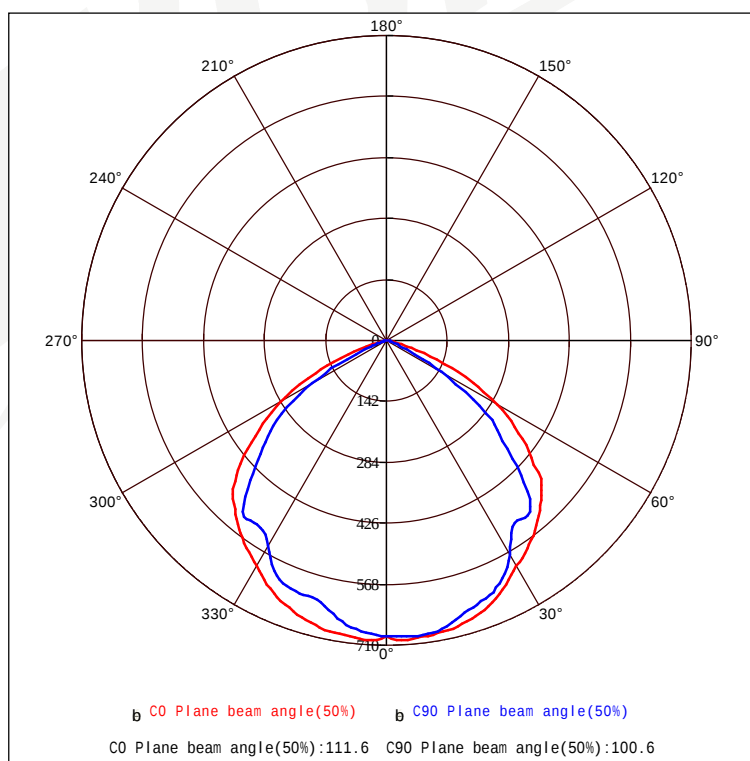


Goniophotometer Test Report

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm						
Lamp Name: LED FLOOD LIGHT			Lamp Type: Class I		Weight(kg):	
Lamp ID: LPFL-20XT01			Lamp Spec:		Shape Size:	
Manufactory: LIPER			Sur(m^2):		Protect Angle(Deg):	
Light Source Data			Photometric Data			
Model	LPFL-20XT01		Peak Value(cd)	699.5	Efficiency(lm/w)	89.8
Nominal P(w)		1.0	Position	0.0,2.0	UP(C0-C180)	0.0
Rated Volt(v)		220.0	Total Flux(lm)	1876.82	Down(C0-C180)	52.5
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)	47.5

Planar Intensity Distribution Curve



Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

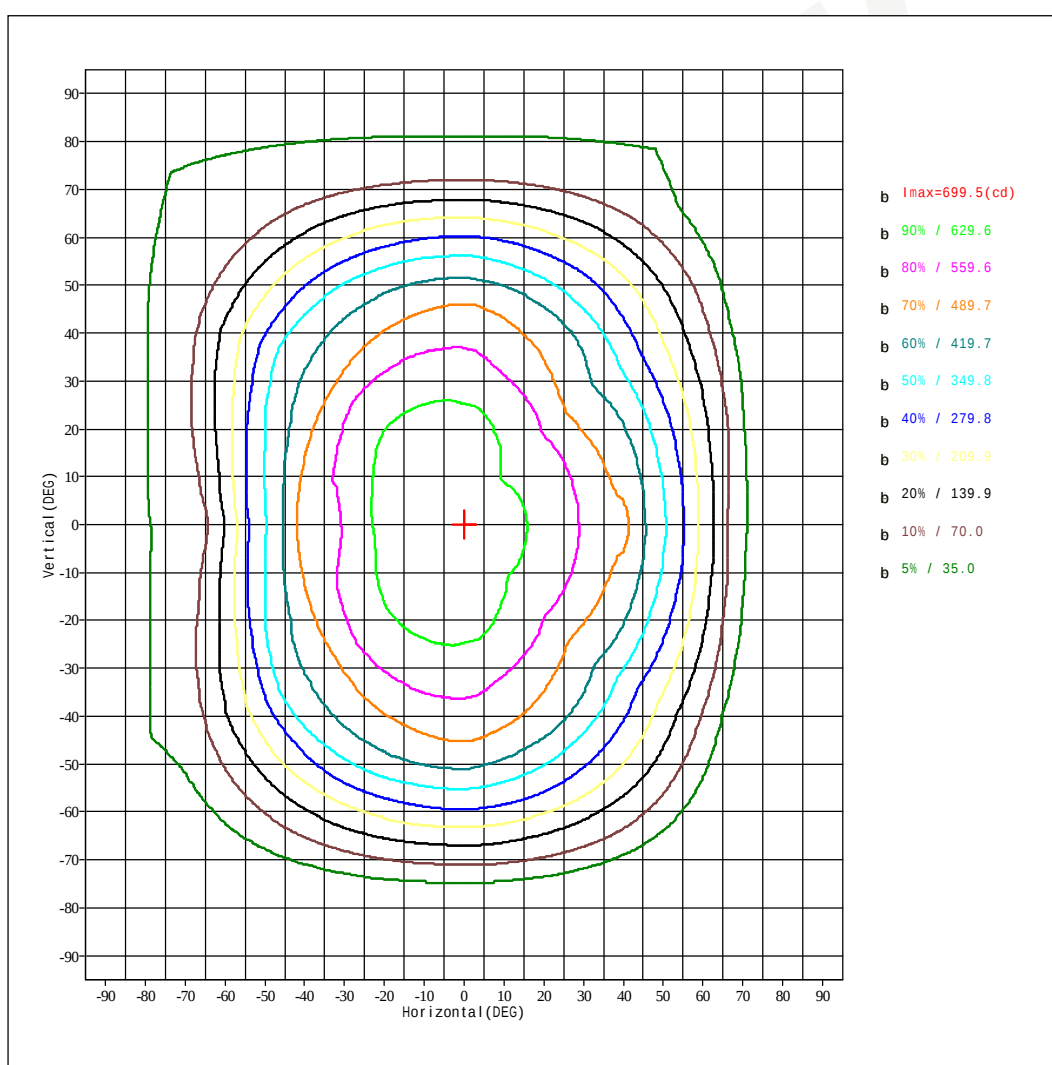
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

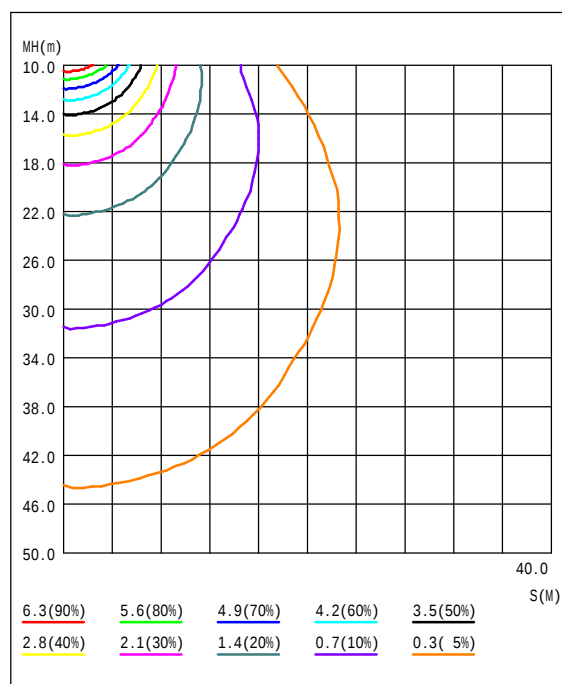
Humidity(%): 60

Date: 2021-10-11

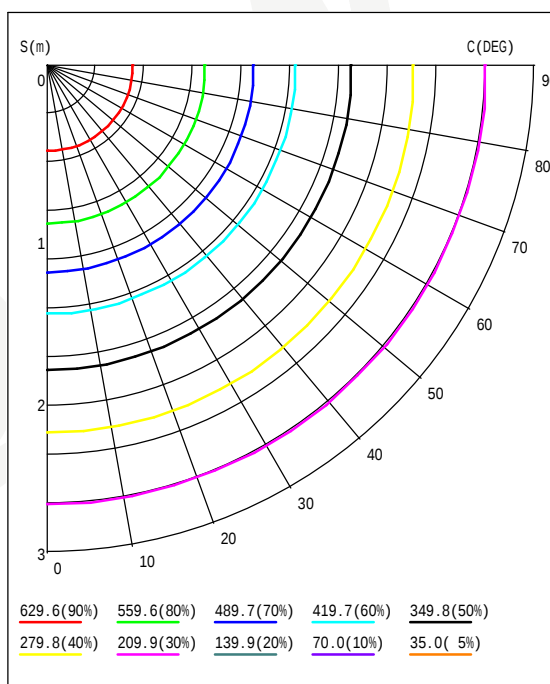
Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

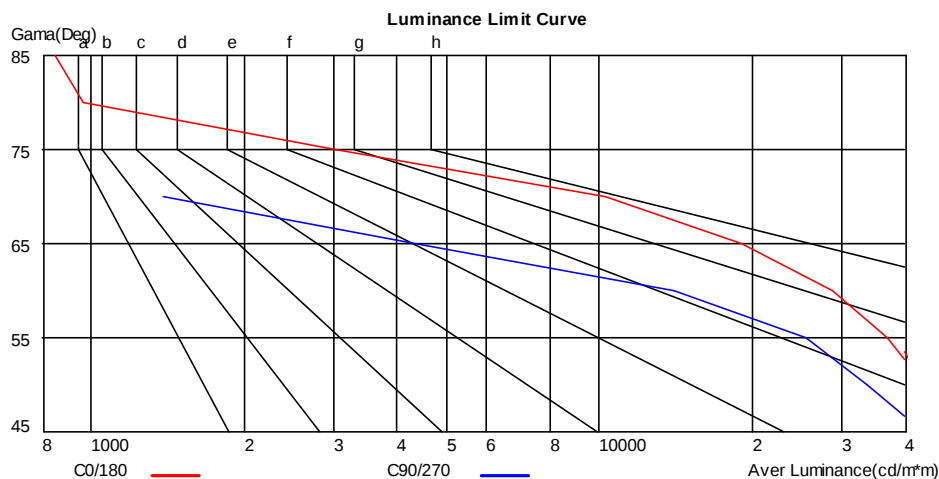
Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	Shape Size:
Manufactory: LIPER	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	50449.8	44026.7	36935.3	28763.8	19132.2	10247.4	3034.6	960.7	847.2
C90	43389.9	33810.8	25469.3	14048.3	4363.2	1386.1	797.3	764.3	759.8

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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

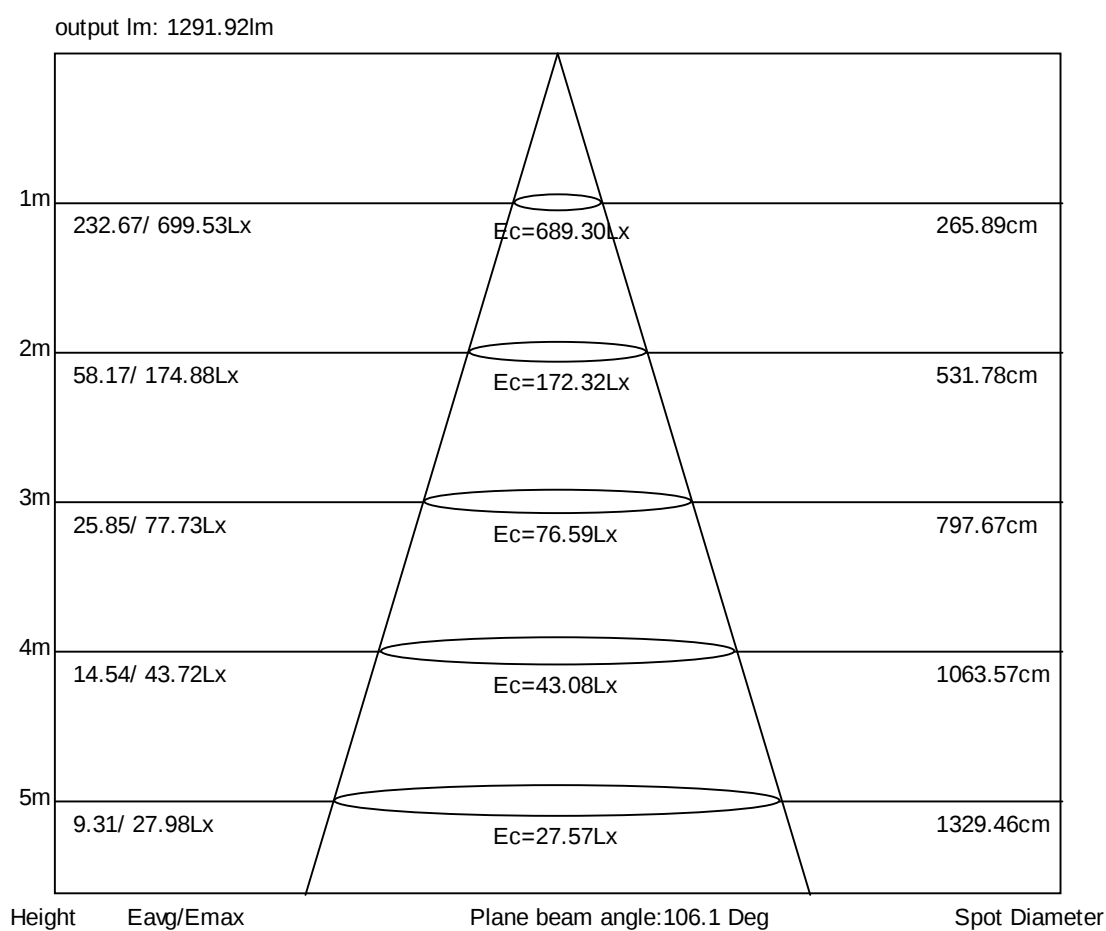
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

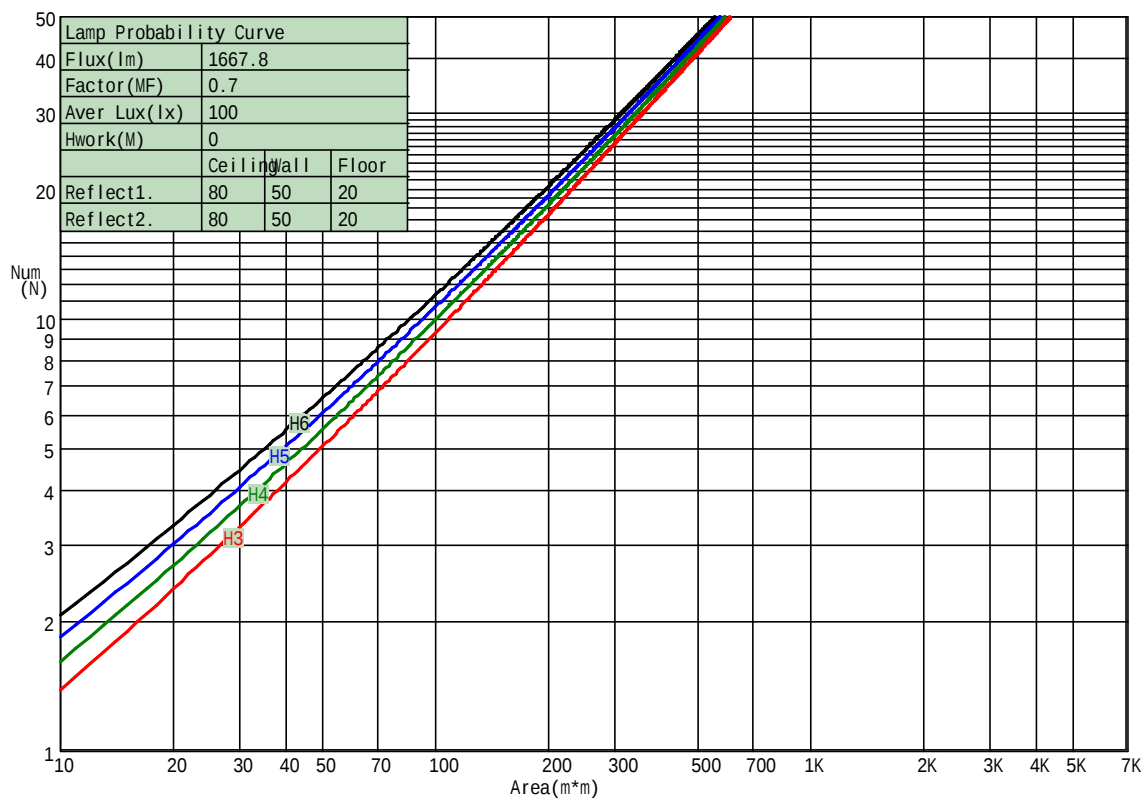
Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	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: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	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	56	42	34	55	42	33	52	40	33
0.80	60	45	34	58	44	34	54	42	33
1.00	63	47	35	61	45	35	56	43	33
1.25	65	48	35	62	46	34	57	43	33
1.50	66	49	35	63	47	34	57	43	32
2.00	68	50	35	65	48	34	58	43	31
2.50	69	50	34	65	47	32	58	43	30
3.00	70	50	33	65	47	32	58	42	29
4.00	71	50	32	66	47	31	57	42	28
5.00	71	51	32	66	47	30	57	41	27

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	1.07	1.03	1	1.04	1.01	0.98	1	0.98	0.95	0.96	0.94	0.92	0.93	0.91	0.9
2	0.95	0.89	0.84	0.93	0.87	0.83	0.89	0.85	0.81	0.86	0.82	0.79	0.83	0.8	0.77
3	0.84	0.77	0.71	0.83	0.76	0.7	0.8	0.74	0.69	0.77	0.72	0.68	0.75	0.7	0.67
4	0.75	0.67	0.61	0.74	0.66	0.61	0.71	0.65	0.6	0.69	0.64	0.59	0.67	0.62	0.58
5	0.68	0.59	0.53	0.66	0.59	0.53	0.64	0.57	0.52	0.62	0.56	0.52	0.61	0.55	0.51
6	0.61	0.53	0.47	0.6	0.52	0.46	0.58	0.51	0.46	0.57	0.5	0.46	0.55	0.5	0.45
7	0.55	0.47	0.41	0.55	0.47	0.41	0.53	0.46	0.41	0.52	0.45	0.41	0.5	0.45	0.4
8	0.51	0.43	0.37	0.5	0.42	0.37	0.49	0.42	0.37	0.47	0.41	0.36	0.46	0.41	0.36
9	0.47	0.39	0.33	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.33
10	0.43	0.35	0.3	0.42	0.35	0.3	0.41	0.35	0.3	0.41	0.34	0.3	0.4	0.34	0.3

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	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	0.26	0.15	0.05	0.25	0.14	0.05	0.24	0.14	0.04	0.22	0.13	0.04	0.21	0.12	0.04
2	0.25	0.14	0.04	0.25	0.13	0.04	0.23	0.13	0.04	0.22	0.13	0.04	0.21	0.12	0.04
3	0.24	0.13	0.04	0.23	0.13	0.04	0.22	0.12	0.04	0.21	0.12	0.04	0.21	0.11	0.04
4	0.23	0.12	0.03	0.22	0.12	0.03	0.21	0.11	0.03	0.2	0.11	0.03	0.2	0.11	0.03
5	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03
6	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03	0.18	0.09	0.03
7	0.19	0.09	0.03	0.18	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03
8	0.18	0.09	0.02	0.17	0.09	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02
9	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02
10	0.16	0.08	0.02	0.15	0.07	0.02	0.15	0.07	0.02	0.15	0.07	0.02	0.14	0.07	0.02

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	0.18	0.16	0.14	0.15	0.13	0.12	0.1	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.02
2	0.17	0.13	0.1	0.14	0.11	0.09	0.1	0.08	0.06	0.06	0.05	0.04	0.02	0.01	0.01
3	0.16	0.11	0.08	0.14	0.1	0.07	0.09	0.07	0.05	0.05	0.04	0.03	0.02	0.01	0.01
4	0.15	0.1	0.06	0.13	0.09	0.05	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.14	0.09	0.05	0.12	0.08	0.04	0.09	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.14	0.08	0.04	0.12	0.07	0.04	0.08	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0
7	0.13	0.07	0.03	0.11	0.06	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.01	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.03	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
9	0.12	0.06	0.03	0.1	0.06	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.11	0.06	0.02	0.1	0.05	0.02	0.07	0.04	0.01	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range:-90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 30

Tester: WH

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range:0 - 180(Deg)

C interval(Deg): 45

Humidity(%): 60

Date: 2021-10-11

Remark:

Measured Para U: 217.2V I: 171.52mA P: 20.90W PF: 0.561 Test LM: 1876.82lm		
Lamp Name: LPFL-20XT01	Lamp Type: Class I	Weight(kg):
Lamp ID: LPFL-20XT01	Lamp Spec:	Shape Size:
Manufactory: LIPER	Sur(m^2):	Protect Angle(Deg):