

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P866848

Luminaire Tested: PRLX-2001-L-935-83L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-83L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

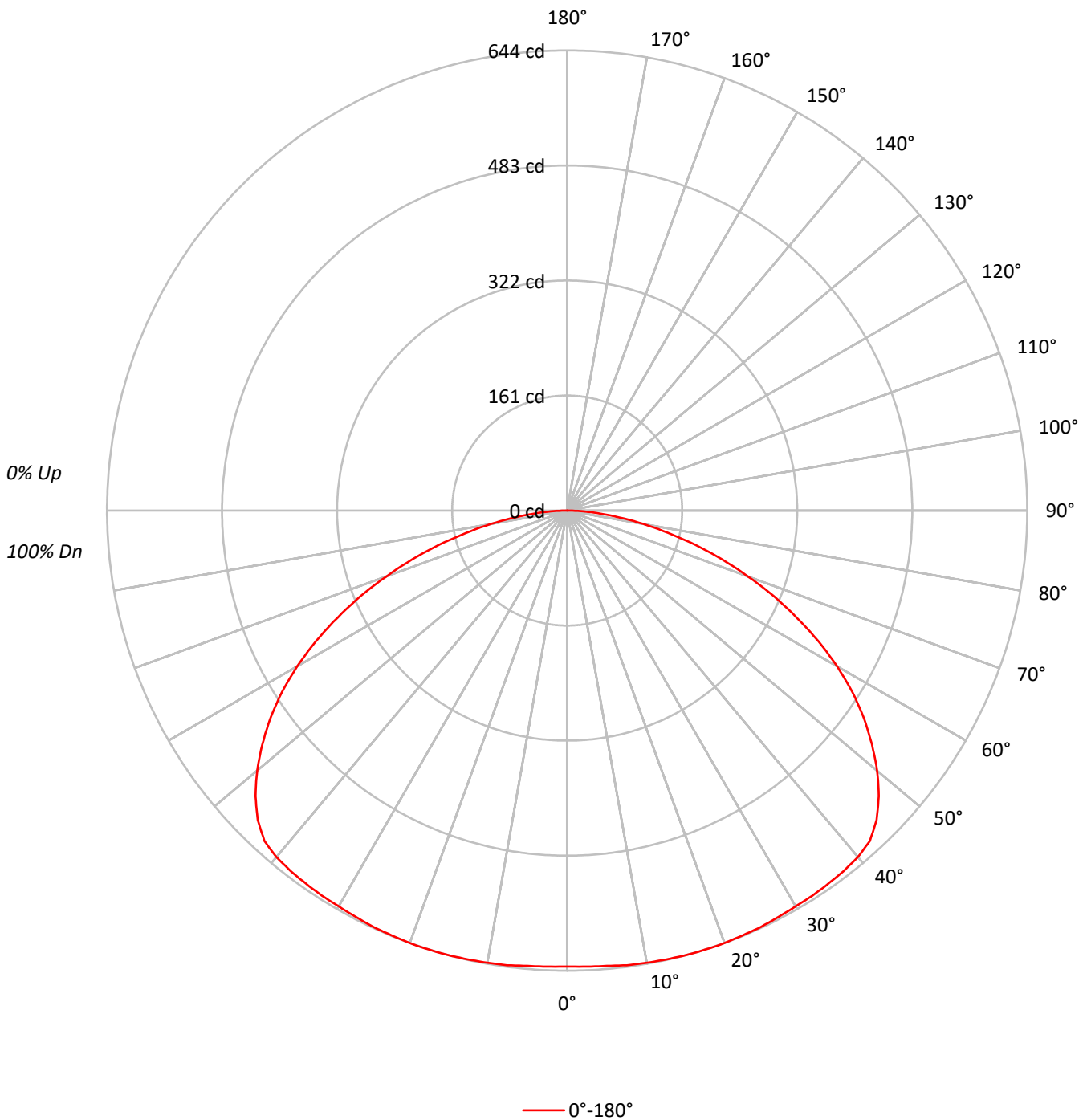
Lumens per Lamp: N/A
Luminaire Lumens: 2461.8 lumens
Efficiency: N/A
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P866848

CATALOG NUMBER: PRLX-2001-L-935-83L-G-X-X-BLAK-X

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	81	75	95	87	80	74	83	78	73		80	75	71		77	73	69	67
3	88	77	68	62	86	75	67	61	72	66	60		70	64	59		67	62	58	55
4	80	68	58	51	78	66	58	51	64	56	50		61	55	49		59	53	49	46
5	73	60	50	43	71	59	50	43	57	49	43		55	48	42		53	47	42	39
6	68	54	44	37	66	53	44	37	51	43	37		49	42	36		47	41	36	34
7	62	48	39	33	61	47	39	32	46	38	32		44	37	32		43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	28		40	33	28		39	33	28	26
9	54	40	31	26	52	39	31	25	38	31	25		37	30	25		36	30	25	23
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3489
5°	3510
10°	3567
15°	3645
20°	3747
25°	3876
30°	4038
35°	4254
40°	4517
45°	4734
50°	4818
55°	4836
60°	4773
65°	4586
70°	4298
75°	3916
80°	3419
85°	2685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 4836 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	2.5
10°-20°	182.5	7.4
20°-30°	297.2	12.1
30°-40°	400.2	16.3
40°-50°	469.9	19.1
50°-60°	452.0	18.4
60°-70°	350.6	14.2
70°-80°	196.8	8.0
80°-90°	51.5	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	540.9	22.0
0°-40°	941.0	38.2
0°-60°	1862.9	75.7
0°-90°	2461.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	638	
5°	640	61
15°	644	182
25°	643	297
35°	637	400
45°	612	470
55°	507	452
65°	354	351
75°	185	197
85°	43	52
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	638.2
2.5°	638.9
5°	639.6
7.5°	641.8
10°	642.6
12.5°	643.3
15°	644.1
17.5°	644.1
20°	644.1
22.5°	643.3
25°	642.6
27.5°	641.1
30°	639.6
32.5°	638.9
35°	637.4
37.5°	635.9
40°	633.0
42.5°	627.1
45°	612.3
47.5°	591.6
50°	566.5
52.5°	537.7
55°	507.4
57.5°	473.4
60°	436.5
62.5°	396.6
65°	354.5
67.5°	313.2
70°	268.9
72.5°	227.5
75°	185.4
77.5°	144.8
80°	108.6
82.5°	73.9
85°	42.8
87.5°	18.5
90°	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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	18.06	19.78	18.42	20.09	20.40	18.06	19.78	18.42	20.09	20.40
	3H	19.88	21.44	20.26	21.77	22.13	19.88	21.44	20.26	21.77	22.13
	4H	20.54	22.01	20.94	22.36	22.73	20.54	22.01	20.94	22.36	22.73
	6H	21.00	22.37	21.41	22.73	23.12	21.00	22.37	21.41	22.73	23.12
	8H	21.14	22.45	21.56	22.84	23.24	21.14	22.45	21.56	22.84	23.24
	12H	21.23	22.49	21.66	22.87	23.30	21.23	22.49	21.66	22.87	23.30
4H	2H	18.72	20.19	19.11	20.54	20.91	18.72	20.19	19.11	20.54	20.91
	3H	20.75	21.99	21.16	22.39	22.79	20.75	21.99	21.16	22.39	22.79
	4H	21.53	22.66	21.96	23.07	23.50	21.53	22.66	21.96	23.07	23.50
	6H	22.12	23.10	22.57	23.54	23.99	22.12	23.10	22.57	23.54	23.99
	8H	22.30	23.23	22.76	23.67	24.13	22.30	23.23	22.76	23.67	24.13
	12H	22.43	23.26	22.91	23.74	24.20	22.43	23.26	22.91	23.74	24.20
8H	4H	21.84	22.77	22.30	23.21	23.67	21.84	22.77	22.30	23.21	23.67
	6H	22.54	23.31	23.03	23.80	24.27	22.54	23.31	23.03	23.80	24.27
	8H	22.80	23.49	23.30	23.99	24.47	22.80	23.49	23.30	23.99	24.47
	12H	22.99	23.60	23.49	24.09	24.64	22.99	23.60	23.49	24.09	24.64
12H	4H	21.88	22.71	22.36	23.19	23.65	21.88	22.71	22.36	23.19	23.65
	6H	22.60	23.29	23.10	23.79	24.28	22.60	23.29	23.10	23.79	24.28
	8H	22.90	23.51	23.41	24.00	24.56	22.90	23.51	23.41	24.00	24.56