

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: P866704

Luminaire Tested: PRLX-2001-L-927-48L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866704
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-927-48L-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 3
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

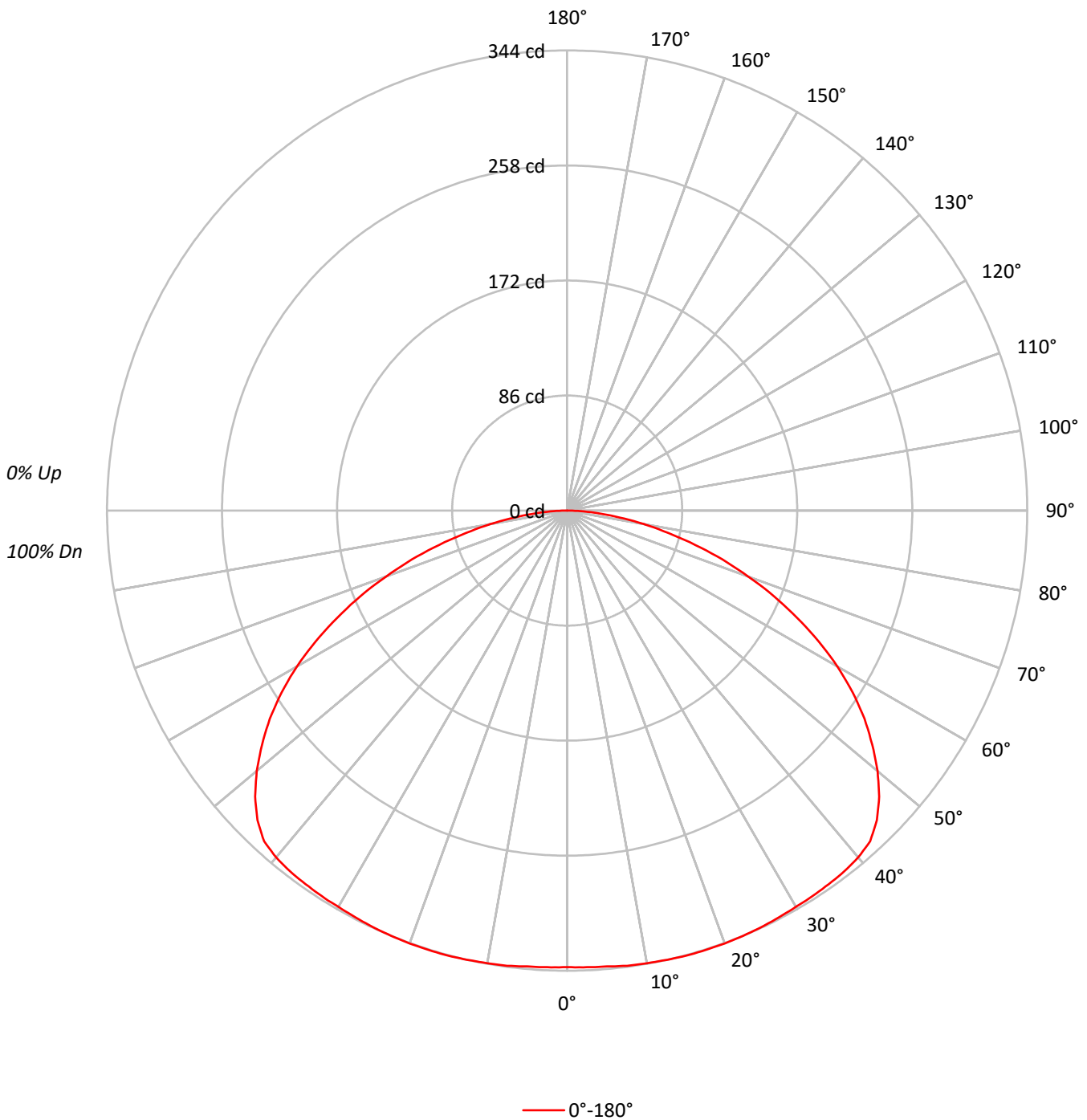
Lumens per Lamp: N/A
Luminaire Lumens: 1316.5 lumens
Efficiency: N/A
Efficacy: 35.1 lumens/watt
Spacing Criteria (0/90/45): 1.53 / 1.53 / 1.64
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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

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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°	1866
5°	1877
10°	1907
15°	1949
20°	2004
25°	2073
30°	2160
35°	2275
40°	2416
45°	2531
50°	2576
55°	2586
60°	2552
65°	2453
70°	2299
75°	2093
80°	1829
85°	1436

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 55°
 Luminance: 2586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	2.5
10°-20°	97.6	7.4
20°-30°	158.9	12.1
30°-40°	214.0	16.3
40°-50°	251.3	19.1
50°-60°	241.7	18.4
60°-70°	187.5	14.2
70°-80°	105.2	8.0
80°-90°	27.6	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°	289.2	22.0
0°-40°	503.2	38.2
0°-60°	996.2	75.7
0°-90°	1316.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1316.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	341	
5°	342	33
15°	344	98
25°	344	159
35°	341	214
45°	327	251
55°	271	242
65°	190	187
75°	99	105
85°	23	28
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	341.3
2.5°	341.7
5°	342.1
7.5°	343.2
10°	343.6
12.5°	344.0
15°	344.4
17.5°	344.4
20°	344.4
22.5°	344.0
25°	343.6
27.5°	342.8
30°	342.1
32.5°	341.7
35°	340.9
37.5°	340.1
40°	338.5
42.5°	335.3
45°	327.4
47.5°	316.4
50°	302.9
52.5°	287.5
55°	271.3
57.5°	253.2
60°	233.4
62.5°	212.1
65°	189.6
67.5°	167.5
70°	143.8
72.5°	121.7
75°	99.1
77.5°	77.4
80°	58.1
82.5°	39.5
85°	22.9
87.5°	9.9
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	15.88	17.60	16.25	17.92	18.23	15.88	17.60	16.25	17.92	18.23
	3H	17.71	19.27	18.08	19.59	19.95	17.71	19.27	18.08	19.59	19.95
	4H	18.36	19.84	18.76	20.18	20.56	18.36	19.84	18.76	20.18	20.56
	6H	18.83	20.19	19.24	20.56	20.95	18.83	20.19	19.24	20.56	20.95
	8H	18.97	20.28	19.39	20.67	21.06	18.97	20.28	19.39	20.67	21.06
	12H	19.06	20.31	19.48	20.69	21.12	19.06	20.31	19.48	20.69	21.12
4H	2H	16.54	18.02	16.94	18.36	18.74	16.54	18.02	16.94	18.36	18.74
	3H	18.58	19.82	18.99	20.21	20.61	18.58	19.82	18.99	20.21	20.61
	4H	19.36	20.48	19.79	20.89	21.33	19.36	20.48	19.79	20.89	21.33
	6H	19.94	20.93	20.39	21.37	21.82	19.94	20.93	20.39	21.37	21.82
	8H	20.13	21.05	20.59	21.49	21.96	20.13	21.05	20.59	21.49	21.96
	12H	20.26	21.09	20.74	21.56	22.03	20.26	21.09	20.74	21.56	22.03
8H	4H	19.67	20.59	20.13	21.03	21.50	19.67	20.59	20.13	21.03	21.50
	6H	20.37	21.14	20.86	21.62	22.10	20.37	21.14	20.86	21.62	22.10
	8H	20.62	21.31	21.13	21.81	22.30	20.62	21.31	21.13	21.81	22.30
	12H	20.81	21.42	21.32	21.91	22.47	20.81	21.42	21.32	21.91	22.47
12H	4H	19.71	20.54	20.18	21.01	21.48	19.71	20.54	20.18	21.01	21.48
	6H	20.42	21.11	20.93	21.62	22.10	20.42	21.11	20.93	21.62	22.10
	8H	20.73	21.34	21.23	21.83	22.39	20.73	21.34	21.23	21.83	22.39