

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: P867168

Luminaire Tested: PRLX-2002-L-940-83L-G-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-940-83L-G-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

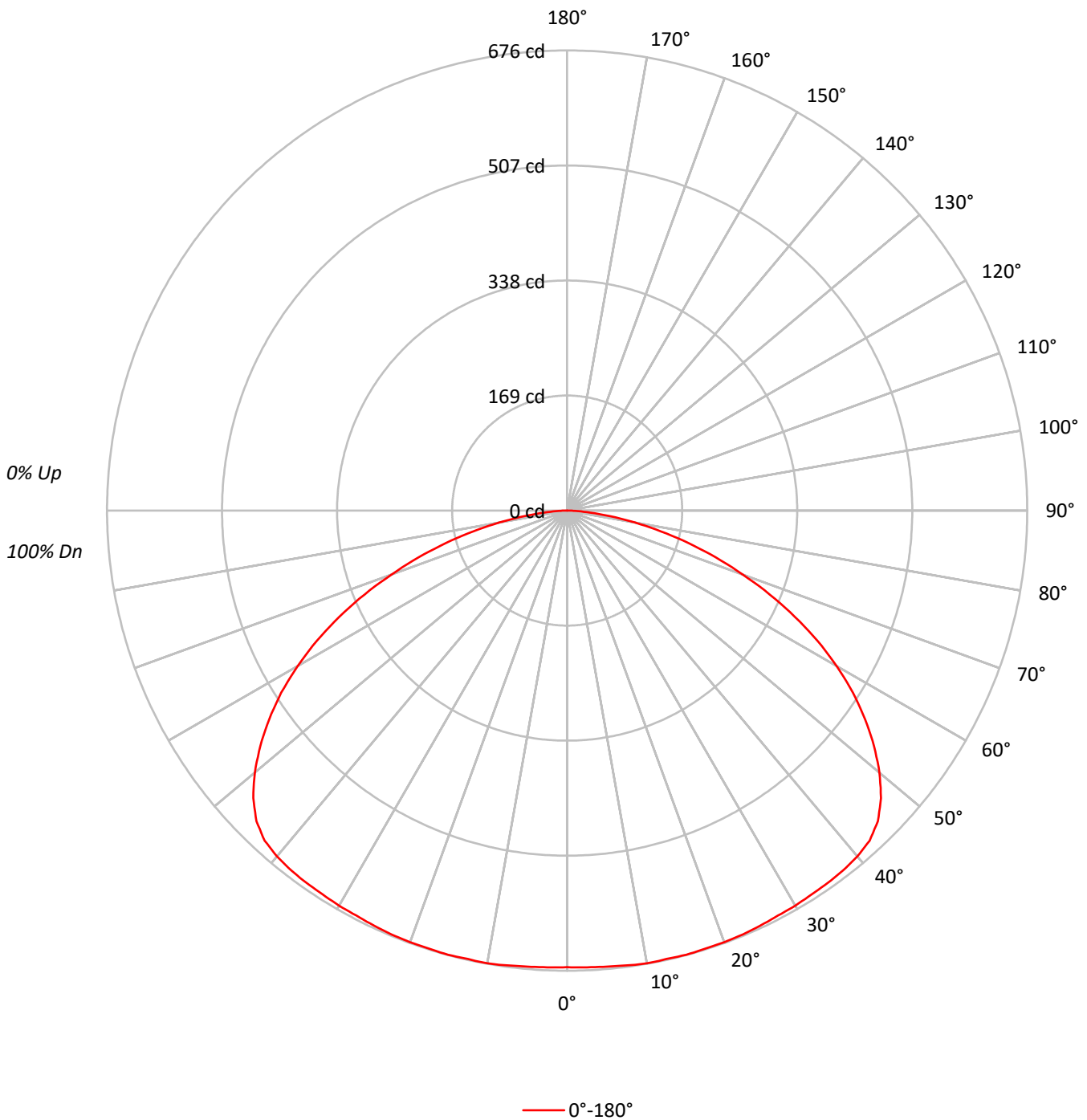
Lumens per Lamp: N/A
Luminaire Lumens: 2560.4 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.65
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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

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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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	48	41	36	34
7	63	48	39	33	61	48	39	33	46	38	32	44	37	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	28	39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26	37	30	25	36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3310
5°	3330
10°	3384
15°	3450
20°	3542
25°	3660
30°	3818
35°	4022
40°	4271
45°	4503
50°	4598
55°	4597
60°	4512
65°	4313
70°	3960
75°	3513
80°	2870
85°	1919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 4606 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	2.5
10°-20°	191.3	7.5
20°-30°	311.1	12.2
30°-40°	419.1	16.4
40°-50°	494.9	19.3
50°-60°	476.3	18.6
60°-70°	364.2	14.2
70°-80°	195.6	7.6
80°-90°	43.5	1.7
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°	566.8	22.1
0°-40°	985.9	38.5
0°-60°	1957.1	76.4
0°-90°	2560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	671	
5°	672	64
15°	676	191
25°	672	311
35°	668	419
45°	645	495
55°	534	476
65°	369	364
75°	184	196
85°	34	44
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	670.8
2.5°	671.6
5°	672.4
7.5°	673.9
10°	675.5
12.5°	674.7
15°	675.5
17.5°	674.7
20°	674.7
22.5°	673.9
25°	672.4
27.5°	670.8
30°	670.1
32.5°	668.5
35°	667.8
37.5°	666.2
40°	663.1
42.5°	657.7
45°	645.4
47.5°	625.4
50°	599.1
52.5°	568.3
55°	534.4
57.5°	498.1
60°	457.3
62.5°	414.8
65°	369.4
67.5°	322.3
70°	274.5
72.5°	229.0
75°	184.3
77.5°	141.1
80°	101.0
82.5°	64.0
85°	33.9
87.5°	11.6
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	17.92	19.64	18.29	19.95	20.26	17.92	19.64	18.29	19.95	20.26
	3H	19.67	21.23	20.05	21.55	21.91	19.67	21.23	20.05	21.55	21.91
	4H	20.28	21.75	20.68	22.09	22.47	20.28	21.75	20.68	22.09	22.47
	6H	20.68	22.04	21.09	22.40	22.79	20.68	22.04	21.09	22.40	22.79
	8H	20.78	22.08	21.20	22.47	22.86	20.78	22.08	21.20	22.47	22.86
	12H	20.83	22.08	21.26	22.46	22.89	20.83	22.08	21.26	22.46	22.89
4H	2H	18.57	20.04	18.97	20.38	20.76	18.57	20.04	18.97	20.38	20.76
	3H	20.52	21.76	20.93	22.15	22.55	20.52	21.76	20.93	22.15	22.55
	4H	21.25	22.36	21.68	22.77	23.21	21.25	22.36	21.68	22.77	23.21
	6H	21.75	22.73	22.20	23.17	23.62	21.75	22.73	22.20	23.17	23.62
	8H	21.89	22.80	22.35	23.24	23.71	21.89	22.80	22.35	23.24	23.71
	12H	21.97	22.79	22.45	23.27	23.73	21.97	22.79	22.45	23.27	23.73
8H	4H	21.53	22.44	21.99	22.89	23.35	21.53	22.44	21.99	22.89	23.35
	6H	22.13	22.89	22.62	23.38	23.85	22.13	22.89	22.62	23.38	23.85
	8H	22.32	23.00	22.82	23.50	23.99	22.32	23.00	22.82	23.50	23.99
	12H	22.44	23.05	22.95	23.53	24.09	22.44	23.05	22.95	23.53	24.09
12H	4H	21.56	22.38	22.04	22.85	23.32	21.56	22.38	22.04	22.85	23.32
	6H	22.17	22.85	22.67	23.35	23.84	22.17	22.85	22.67	23.35	23.84
	8H	22.40	23.00	22.90	23.49	24.05	22.40	23.00	22.90	23.49	24.05