

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: P866392

Luminaire Tested: PRLX-2002-M-940-65L-L-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-940-65L-L-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS, TRUNCATED DOME WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

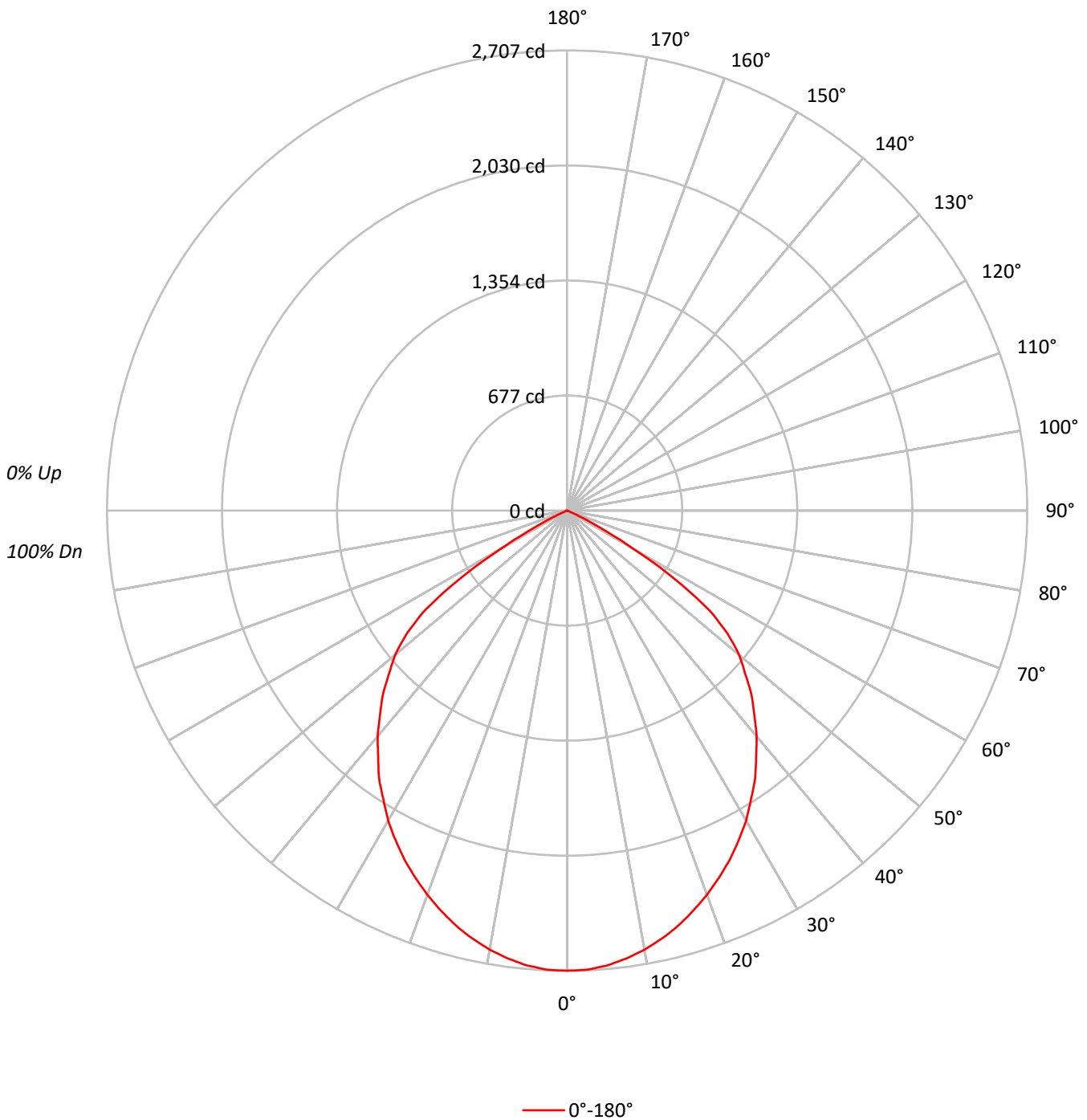
Lumens per Lamp: N/A
Luminaire Lumens: 5385.9 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.27
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	95	93	92	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69
4	89	79	72	66	87	78	71	66	75	69	65	73	68	64	71	67	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21535
5°	21454
10°	21189
15°	20819
20°	20357
25°	19878
30°	19345
35°	18729
40°	18012
45°	17265
50°	16359
55°	14165
60°	7248
65°	1406
70°	130
75°	172
80°	170
85°	173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17265 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.4	4.7
10°-20°	711.7	13.2
20°-30°	1042.2	19.3
30°-40°	1202.6	22.3
40°-50°	1179.1	21.9
50°-60°	856.8	15.9
60°-70°	131.4	2.4
70°-80°	5.2	0.1
80°-90°	2.5	0.0
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°	2008.2	37.3
0°-40°	3210.8	59.6
0°-60°	5246.8	97.4
0°-90°	5385.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5385.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2707	
5°	2686	254
15°	2528	712
25°	2264	1042
35°	1928	1203
45°	1534	1179
55°	1021	857
65°	75	131
75°	6	5
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2706.9
2.5°	2703.2
5°	2686.4
7.5°	2658.4
10°	2622.9
12.5°	2578.1
15°	2527.7
17.5°	2467.9
20°	2404.5
22.5°	2335.4
25°	2264.5
27.5°	2186.0
30°	2105.8
32.5°	2012.4
35°	1928.4
37.5°	1825.7
40°	1734.3
42.5°	1629.7
45°	1534.5
47.5°	1420.6
50°	1321.7
52.5°	1189.2
55°	1021.2
57.5°	754.2
60°	455.5
62.5°	216.6
65°	74.7
67.5°	18.7
70°	5.6
72.5°	5.6
75°	5.6
77.5°	3.7
80°	3.7
82.5°	3.7
85°	1.9
87.5°	1.9
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	20.10	21.51	20.46	21.83	22.14	20.10	21.51	20.46	21.83	22.14
	3H	19.98	21.22	20.36	21.55	21.92	19.98	21.22	20.36	21.55	21.92
	4H	19.92	21.07	20.32	21.42	21.80	19.92	21.07	20.32	21.42	21.80
	6H	19.84	20.90	20.26	21.27	21.66	19.84	20.90	20.26	21.27	21.66
	8H	19.80	20.80	20.23	21.20	21.60	19.80	20.80	20.23	21.20	21.60
	12H	19.77	20.72	20.20	21.10	21.53	19.77	20.72	20.20	21.10	21.53
4H	2H	19.94	21.09	20.34	21.44	21.82	19.94	21.09	20.34	21.44	21.82
	3H	19.82	20.75	20.24	21.15	21.55	19.82	20.75	20.24	21.15	21.55
	4H	19.74	20.56	20.18	20.98	21.42	19.74	20.56	20.18	20.98	21.42
	6H	19.67	20.37	20.13	20.82	21.28	19.67	20.37	20.13	20.82	21.28
	8H	19.61	20.27	20.08	20.72	21.19	19.61	20.27	20.08	20.72	21.19
	12H	19.57	20.15	20.05	20.63	21.11	19.57	20.15	20.05	20.63	21.11
8H	4H	19.61	20.27	20.08	20.72	21.19	19.61	20.27	20.08	20.72	21.19
	6H	19.51	20.05	20.01	20.55	21.03	19.51	20.05	20.01	20.55	21.03
	8H	19.44	19.94	19.96	20.45	20.94	19.44	19.94	19.96	20.45	20.94
	12H	19.39	19.84	19.91	20.33	20.90	19.39	19.84	19.91	20.33	20.90
12H	4H	19.56	20.15	20.05	20.63	21.11	19.56	20.15	20.05	20.63	21.11
	6H	19.44	19.94	19.96	20.45	20.94	19.44	19.94	19.96	20.45	20.94
	8H	19.39	19.84	19.90	20.33	20.90	19.39	19.84	19.90	20.33	20.90