

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: P866391

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-M-940-65L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

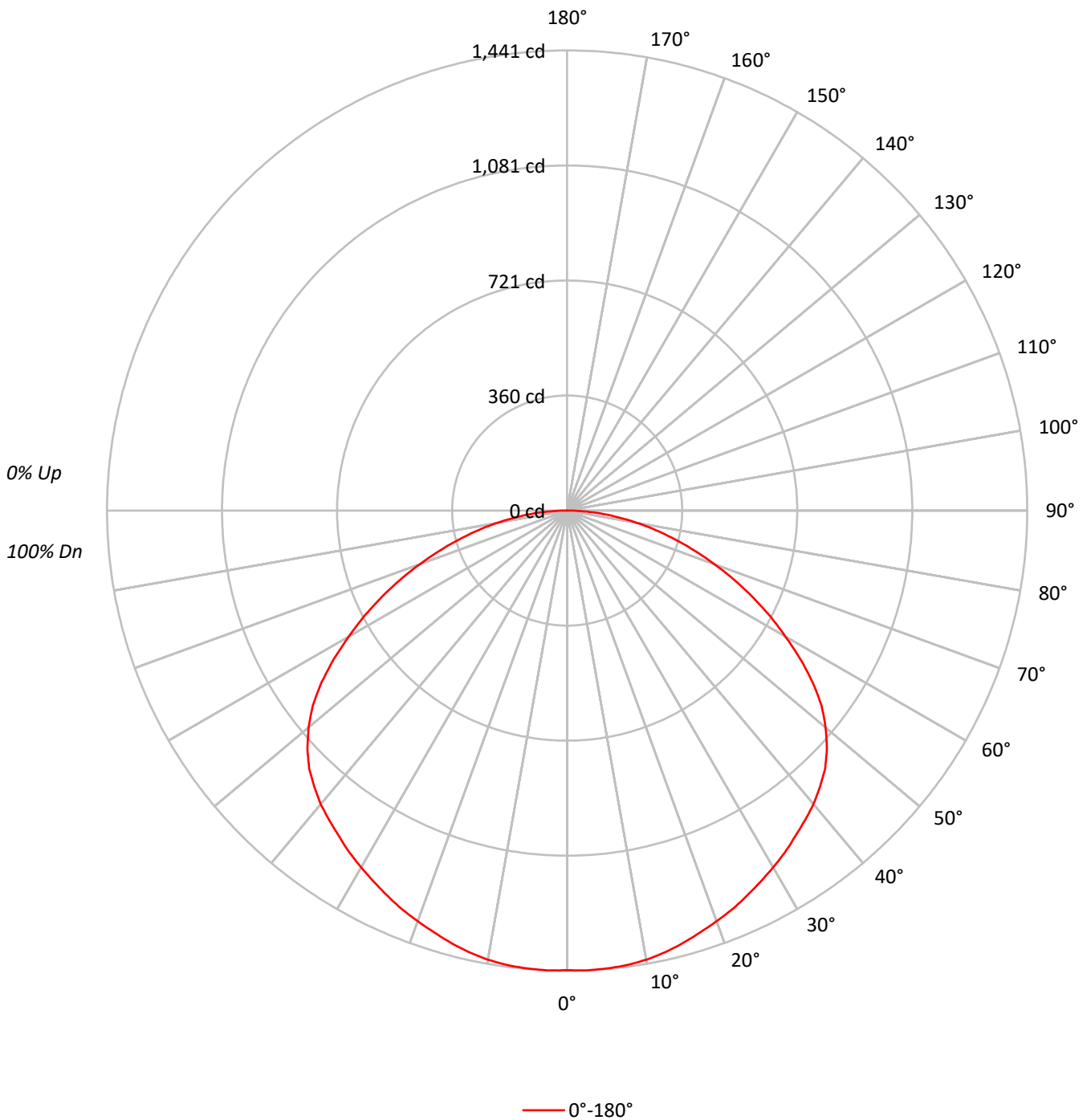
Lumens per Lamp: N/A
Luminaire Lumens: 4766.5 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.333 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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11451
5°	11494
10°	11537
15°	11547
20°	11585
25°	11684
30°	11851
35°	12094
40°	12467
45°	12854
50°	13078
55°	13024
60°	12565
65°	12054
70°	11421
75°	10789
80°	10180
85°	9539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 13125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	2.9
10°-20°	396.1	8.3
20°-30°	614.8	12.9
30°-40°	781.4	16.4
40°-50°	878.8	18.4
50°-60°	834.9	17.5
60°-70°	634.2	13.3
70°-80°	372.7	7.8
80°-90°	116.6	2.4
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°	1148.0	24.1
0°-40°	1929.4	40.5
0°-60°	3643.1	76.4
0°-90°	4766.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4766.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1439	
5°	1439	137
15°	1402	396
25°	1331	615
35°	1245	781
45°	1142	879
55°	939	835
65°	640	634
75°	351	373
85°	104	117
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1439.3
2.5°	1441.2
5°	1439.3
7.5°	1435.6
10°	1428.1
12.5°	1416.9
15°	1402.0
17.5°	1385.2
20°	1368.4
22.5°	1351.6
25°	1331.0
27.5°	1310.5
30°	1290.0
32.5°	1269.4
35°	1245.2
37.5°	1222.8
40°	1200.4
42.5°	1172.4
45°	1142.5
47.5°	1103.3
50°	1056.6
52.5°	1004.3
55°	939.0
57.5°	866.2
60°	789.7
62.5°	716.9
65°	640.3
67.5°	565.6
70°	491.0
72.5°	420.0
75°	351.0
77.5°	285.6
80°	222.2
82.5°	160.5
85°	104.5
87.5°	52.3
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	21.29	22.98	21.65	23.30	23.61	21.29	22.98	21.65	23.30	23.61
	3H	23.09	24.62	23.46	24.95	25.31	23.09	24.62	23.46	24.95	25.31
	4H	23.78	25.23	24.18	25.58	25.95	23.78	25.23	24.18	25.58	25.95
	6H	24.33	25.68	24.74	26.04	26.43	24.33	25.68	24.74	26.04	26.43
	8H	24.52	25.81	24.95	26.20	26.60	24.52	25.81	24.95	26.20	26.60
	12H	24.67	25.90	25.09	26.28	26.71	24.67	25.90	25.09	26.28	26.71
4H	2H	21.93	23.38	22.32	23.72	24.10	21.93	23.38	22.32	23.72	24.10
	3H	23.95	25.17	24.36	25.57	25.97	23.95	25.17	24.36	25.57	25.97
	4H	24.78	25.89	25.21	26.30	26.74	24.78	25.89	25.21	26.30	26.74
	6H	25.47	26.44	25.92	26.88	27.33	25.47	26.44	25.92	26.88	27.33
	8H	25.72	26.63	26.18	27.07	27.53	25.72	26.63	26.18	27.07	27.53
	12H	25.92	26.74	26.40	27.21	27.68	25.92	26.74	26.40	27.21	27.68
8H	4H	25.12	26.03	25.58	26.47	26.93	25.12	26.03	25.58	26.47	26.93
	6H	25.94	26.71	26.44	27.19	27.66	25.94	26.71	26.44	27.19	27.66
	8H	26.28	26.96	26.78	27.46	27.95	26.28	26.96	26.78	27.46	27.95
	12H	26.56	27.17	27.07	27.66	28.22	26.56	27.17	27.07	27.66	28.22
12H	4H	25.16	25.99	25.64	26.46	26.93	25.16	25.99	25.64	26.46	26.93
	6H	26.02	26.70	26.52	27.21	27.69	26.02	26.70	26.52	27.21	27.69
	8H	26.41	27.02	26.92	27.51	28.07	26.41	27.02	26.92	27.51	28.07