

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: P866907

Luminaire Tested: PRLX-2001-L-940-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2001-L-940-67L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

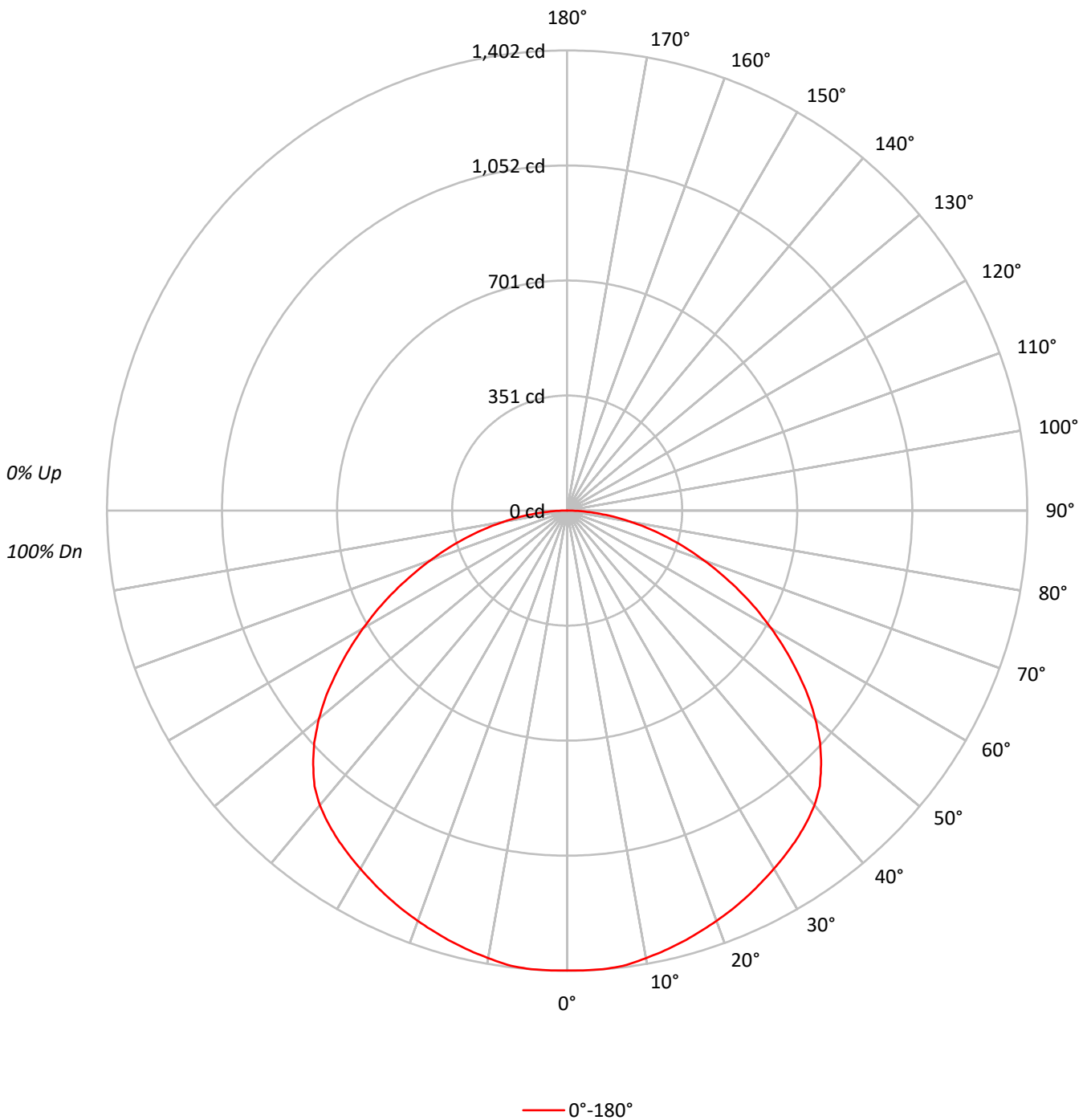
Lumens per Lamp: N/A
Luminaire Lumens: 4497.8 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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: 0.333 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	95	106	101	97	93	97	93	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27		39	32	27		38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25		36	29	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7660
5°	7689
10°	7686
15°	7698
20°	7741
25°	7827
30°	7954
35°	8147
40°	8367
45°	8461
50°	8395
55°	8157
60°	7848
65°	7491
70°	7089
75°	6660
80°	6199
85°	5539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8461 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.0
10°-20°	384.5	8.5
20°-30°	599.2	13.3
30°-40°	764.7	17.0
40°-50°	841.8	18.7
50°-60°	764.9	17.0
60°-70°	573.8	12.8
70°-80°	335.4	7.5
80°-90°	100.4	2.2
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°	1116.9	24.8
0°-40°	1881.7	41.8
0°-60°	3488.3	77.6
0°-90°	4497.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1401	
5°	1401	133
15°	1360	384
25°	1298	599
35°	1221	765
45°	1094	842
55°	856	765
65°	579	574
75°	315	335
85°	88	100
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1401.2
2.5°	1401.8
5°	1401.2
7.5°	1396.3
10°	1384.6
12.5°	1373.0
15°	1360.1
17.5°	1345.4
20°	1330.6
22.5°	1314.7
25°	1297.5
27.5°	1279.1
30°	1260.1
32.5°	1241.1
35°	1220.8
37.5°	1198.1
40°	1172.4
42.5°	1139.2
45°	1094.4
47.5°	1044.8
50°	987.1
52.5°	924.5
55°	855.8
57.5°	787.7
60°	717.8
62.5°	649.7
65°	579.1
67.5°	509.8
70°	443.5
72.5°	379.7
75°	315.3
77.5°	256.4
80°	196.9
82.5°	141.1
85°	88.3
87.5°	41.1
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	19.55	21.23	19.92	21.54	21.86	19.55	21.23	19.92	21.54	21.86
	3H	21.32	22.84	21.70	23.17	23.53	21.32	22.84	21.70	23.17	23.53
	4H	22.01	23.44	22.41	23.79	24.16	22.01	23.44	22.41	23.79	24.16
	6H	22.54	23.87	22.95	24.24	24.63	22.54	23.87	22.95	24.24	24.63
	8H	22.72	24.00	23.15	24.38	24.78	22.72	24.00	23.15	24.38	24.78
	12H	22.85	24.07	23.28	24.45	24.88	22.85	24.07	23.28	24.45	24.88
4H	2H	20.18	21.61	20.58	21.96	22.33	20.18	21.61	20.58	21.96	22.33
	3H	22.18	23.39	22.59	23.78	24.18	22.18	23.39	22.59	23.78	24.18
	4H	23.00	24.09	23.43	24.50	24.94	23.00	24.09	23.43	24.50	24.94
	6H	23.67	24.63	24.12	25.07	25.52	23.67	24.63	24.12	25.07	25.52
	8H	23.91	24.80	24.37	25.24	25.71	23.91	24.80	24.37	25.24	25.71
	12H	24.08	24.89	24.56	25.37	25.83	24.08	24.89	24.56	25.37	25.83
8H	4H	23.33	24.23	23.79	24.67	25.13	23.33	24.23	23.79	24.67	25.13
	6H	24.13	24.88	24.62	25.37	25.84	24.13	24.88	24.62	25.37	25.84
	8H	24.45	25.12	24.96	25.62	26.11	24.45	25.12	24.96	25.62	26.11
	12H	24.71	25.30	25.21	25.79	26.35	24.71	25.30	25.21	25.79	26.35
12H	4H	23.37	24.18	23.85	24.65	25.12	23.37	24.18	23.85	24.65	25.12
	6H	24.20	24.87	24.71	25.38	25.86	24.20	24.87	24.71	25.38	25.86
	8H	24.58	25.17	25.08	25.66	26.22	24.58	25.17	25.08	25.66	26.22