

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: P867035

Luminaire Tested: PRLX-2002-L-930-67L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Pentalux
Catalog Number: PRLX-2002-L-930-67L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

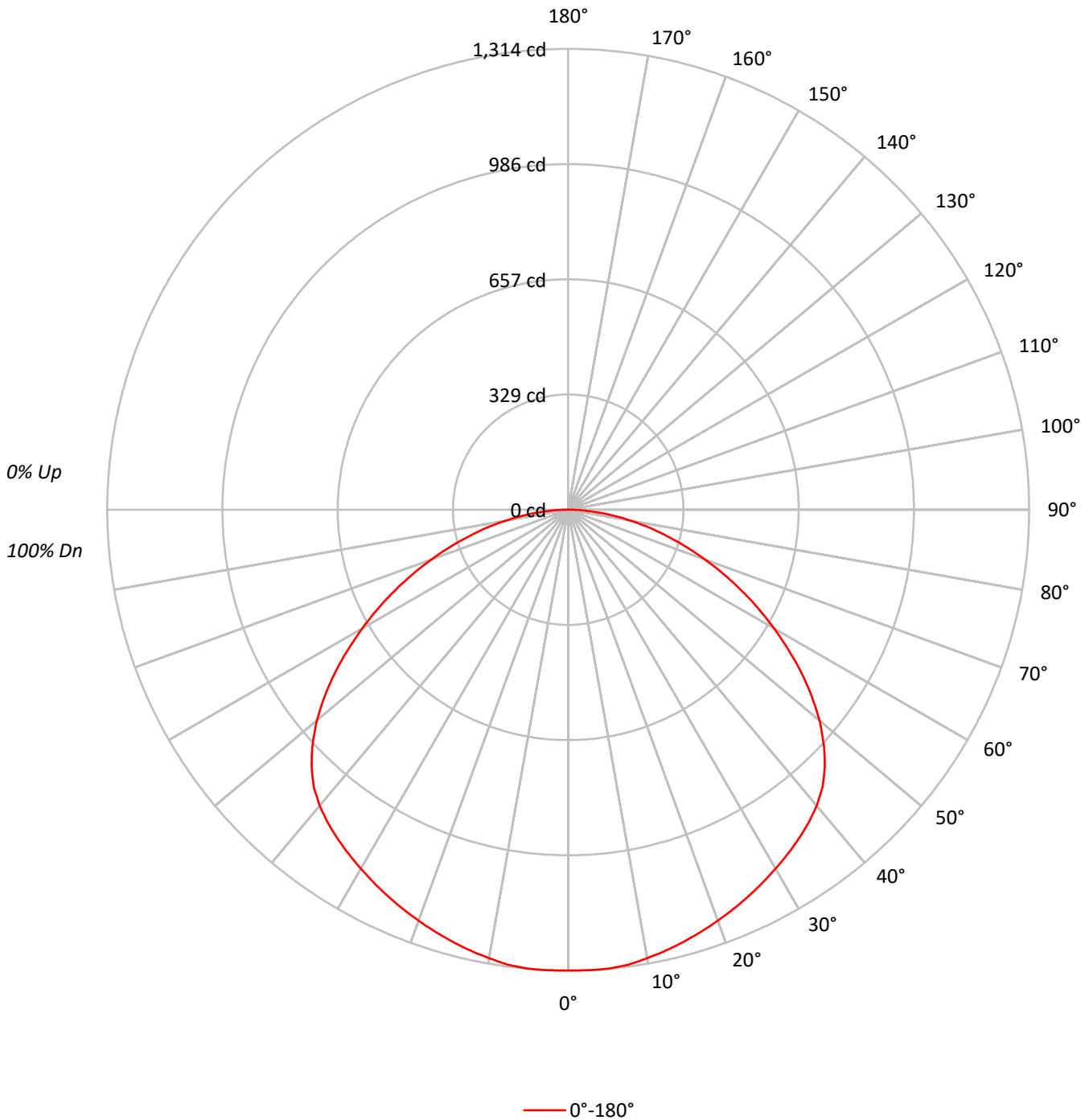
Lumens per Lamp: N/A
Luminaire Lumens: 4227.4 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 50.4
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	95	106	101	97	93	97	94	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	27	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	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	6482
5°	6507
10°	6505
15°	6513
20°	6548
25°	6619
30°	6733
35°	6899
40°	7095
45°	7218
50°	7177
55°	6986
60°	6695
65°	6354
70°	5972
75°	5572
80°	5171
85°	4602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7218 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.0
10°-20°	360.5	8.5
20°-30°	561.7	13.3
30°-40°	717.8	17.0
40°-50°	794.7	18.8
50°-60°	724.3	17.1
60°-70°	539.6	12.8
70°-80°	311.5	7.4
80°-90°	92.4	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°	1047.1	24.8
0°-40°	1764.9	41.7
0°-60°	3283.9	77.7
0°-90°	4227.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4227.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1314	
5°	1314	125
15°	1275	360
25°	1216	562
35°	1145	718
45°	1034	795
55°	812	724
65°	544	540
75°	292	312
85°	81	92
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1313.8
2.5°	1314.3
5°	1313.8
7.5°	1309.2
10°	1298.4
12.5°	1287.6
15°	1275.1
17.5°	1261.4
20°	1247.2
22.5°	1231.9
25°	1215.9
27.5°	1199.5
30°	1181.8
32.5°	1164.2
35°	1145.4
37.5°	1125.5
40°	1101.6
42.5°	1073.2
45°	1034.5
47.5°	987.9
50°	935.0
52.5°	875.3
55°	812.1
57.5°	745.0
60°	678.5
62.5°	611.4
65°	544.3
67.5°	479.4
70°	414.0
72.5°	353.2
75°	292.3
77.5°	237.7
80°	182.0
82.5°	129.7
85°	81.3
87.5°	37.5
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	19.02	20.70	19.39	21.01	21.33	19.02	20.70	19.39	21.01	21.33
	3H	20.77	22.29	21.15	22.62	22.98	20.77	22.29	21.15	22.62	22.98
	4H	21.44	22.87	21.83	23.22	23.59	21.44	22.87	21.83	23.22	23.59
	6H	21.95	23.28	22.36	23.65	24.04	21.95	23.28	22.36	23.65	24.04
	8H	22.13	23.40	22.55	23.79	24.19	22.13	23.40	22.55	23.79	24.19
	12H	22.25	23.47	22.68	23.85	24.28	22.25	23.47	22.68	23.85	24.28
4H	2H	19.64	21.07	20.04	21.42	21.80	19.64	21.07	20.04	21.42	21.80
	3H	21.62	22.82	22.02	23.22	23.62	21.62	22.82	22.02	23.22	23.62
	4H	22.41	23.50	22.84	23.92	24.35	22.41	23.50	22.84	23.92	24.35
	6H	23.07	24.02	23.52	24.46	24.92	23.07	24.02	23.52	24.46	24.92
	8H	23.30	24.19	23.75	24.63	25.10	23.30	24.19	23.75	24.63	25.10
	12H	23.47	24.27	23.95	24.75	25.22	23.47	24.27	23.95	24.75	25.22
8H	4H	22.74	23.63	23.20	24.07	24.54	22.74	23.63	23.20	24.07	24.54
	6H	23.52	24.27	24.01	24.75	25.23	23.52	24.27	24.01	24.75	25.23
	8H	23.83	24.50	24.33	25.00	25.49	23.83	24.50	24.33	25.00	25.49
	12H	24.08	24.67	24.58	25.16	25.72	24.08	24.67	24.58	25.16	25.72
12H	4H	22.78	23.58	23.26	24.06	24.53	22.78	23.58	23.26	24.06	24.53
	6H	23.58	24.26	24.09	24.76	25.25	23.58	24.26	24.09	24.76	25.25
	8H	23.95	24.55	24.46	25.04	25.59	23.95	24.55	24.46	25.04	25.59