

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: P867147

Luminaire Tested: PRLX-2002-L-940-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867147
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-940-32L-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 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

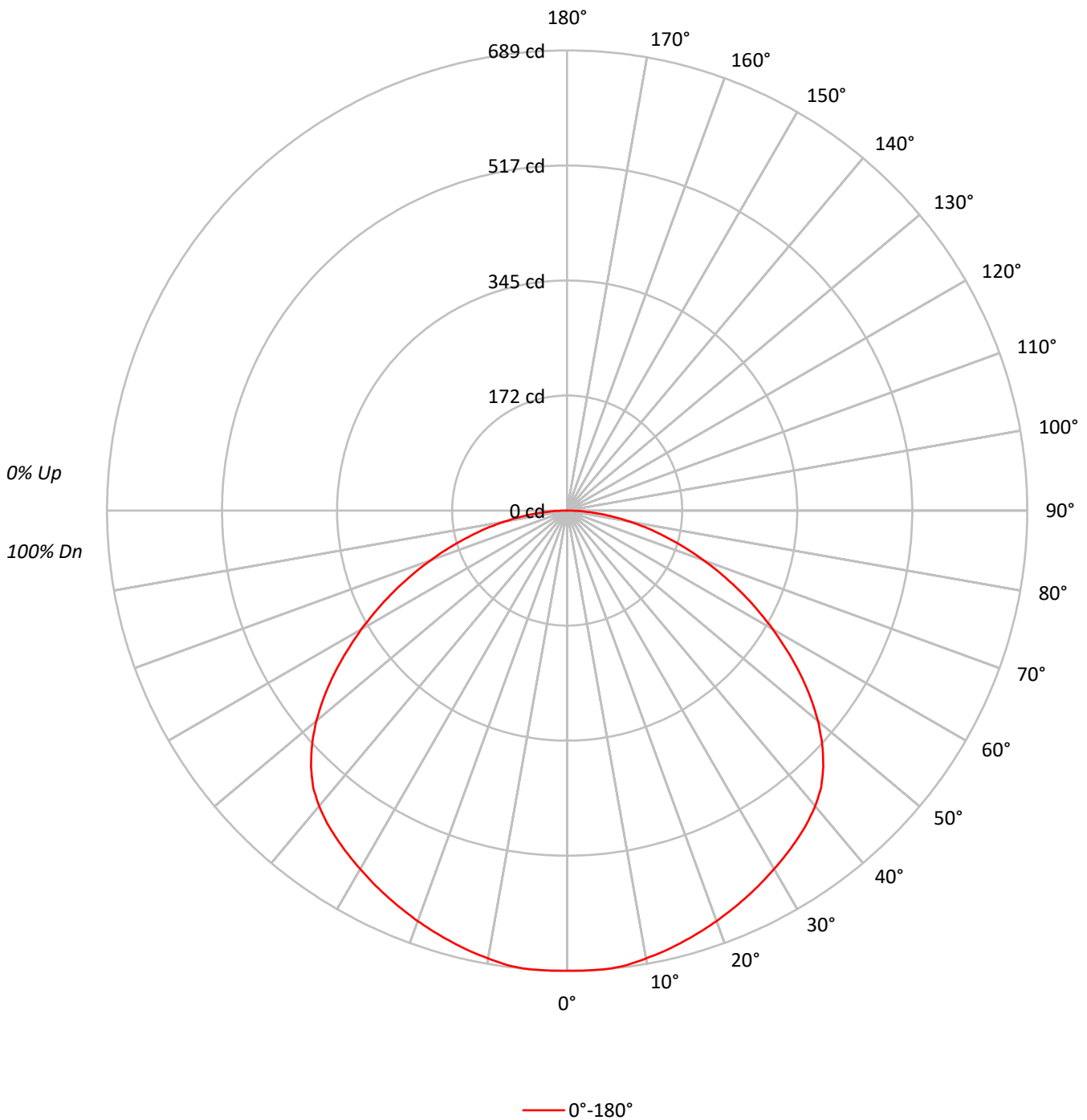
Lumens per Lamp: N/A
Luminaire Lumens: 2216.9 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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	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°	3399
5°	3412
10°	3411
15°	3416
20°	3434
25°	3472
30°	3531
35°	3618
40°	3721
45°	3785
50°	3763
55°	3664
60°	3511
65°	3332
70°	3132
75°	2922
80°	2711
85°	2417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3785 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.0
10°-20°	189.0	8.5
20°-30°	294.6	13.3
30°-40°	376.4	17.0
40°-50°	416.8	18.8
50°-60°	379.8	17.1
60°-70°	283.0	12.8
70°-80°	163.4	7.4
80°-90°	48.5	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°	549.1	24.8
0°-40°	925.6	41.7
0°-60°	1722.2	77.7
0°-90°	2216.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2216.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	689	
5°	689	66
15°	669	189
25°	638	295
35°	601	376
45°	542	417
55°	426	380
65°	285	283
75°	153	163
85°	43	48
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	689.0
2.5°	689.3
5°	689.0
7.5°	686.6
10°	680.9
12.5°	675.3
15°	668.7
17.5°	661.5
20°	654.1
22.5°	646.0
25°	637.7
27.5°	629.0
30°	619.8
32.5°	610.5
35°	600.7
37.5°	590.2
40°	577.7
42.5°	562.8
45°	542.5
47.5°	518.1
50°	490.3
52.5°	459.0
55°	425.9
57.5°	390.7
60°	355.8
62.5°	320.6
65°	285.4
67.5°	251.4
70°	217.1
72.5°	185.2
75°	153.3
77.5°	124.7
80°	95.4
82.5°	68.0
85°	42.7
87.5°	19.7
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	16.78	18.46	17.14	18.77	19.08	16.78	18.46	17.14	18.77	19.08
	3H	18.53	20.05	18.90	20.37	20.73	18.53	20.05	18.90	20.37	20.73
	4H	19.19	20.63	19.59	20.97	21.35	19.19	20.63	19.59	20.97	21.35
	6H	19.71	21.04	20.12	21.40	21.79	19.71	21.04	20.12	21.40	21.79
	8H	19.89	21.16	20.31	21.55	21.94	19.89	21.16	20.31	21.55	21.94
	12H	20.01	21.23	20.44	21.61	22.04	20.01	21.23	20.44	21.61	22.04
4H	2H	17.40	18.83	17.80	19.18	19.55	17.40	18.83	17.80	19.18	19.55
	3H	19.37	20.58	19.78	20.97	21.37	19.37	20.58	19.78	20.97	21.37
	4H	20.17	21.26	20.60	21.67	22.11	20.17	21.26	20.60	21.67	22.11
	6H	20.83	21.78	21.28	22.22	22.67	20.83	21.78	21.28	22.22	22.67
	8H	21.05	21.95	21.51	22.39	22.85	21.05	21.95	21.51	22.39	22.85
	12H	21.23	22.03	21.70	22.51	22.97	21.23	22.03	21.70	22.51	22.97
8H	4H	20.49	21.39	20.95	21.83	22.29	20.49	21.39	20.95	21.83	22.29
	6H	21.28	22.02	21.77	22.51	22.98	21.28	22.02	21.77	22.51	22.98
	8H	21.58	22.25	22.09	22.76	23.24	21.58	22.25	22.09	22.76	23.24
	12H	21.84	22.43	22.34	22.92	23.48	21.84	22.43	22.34	22.92	23.48
12H	4H	20.53	21.34	21.01	21.81	22.28	20.53	21.34	21.01	21.81	22.28
	6H	21.34	22.01	21.85	22.52	23.00	21.34	22.01	21.85	22.52	23.00
	8H	21.71	22.30	22.21	22.79	23.35	21.71	22.30	22.21	22.79	23.35