

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: P867011

Luminaire Tested: PRLX-2002-L-930-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867011
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-930-15L-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 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

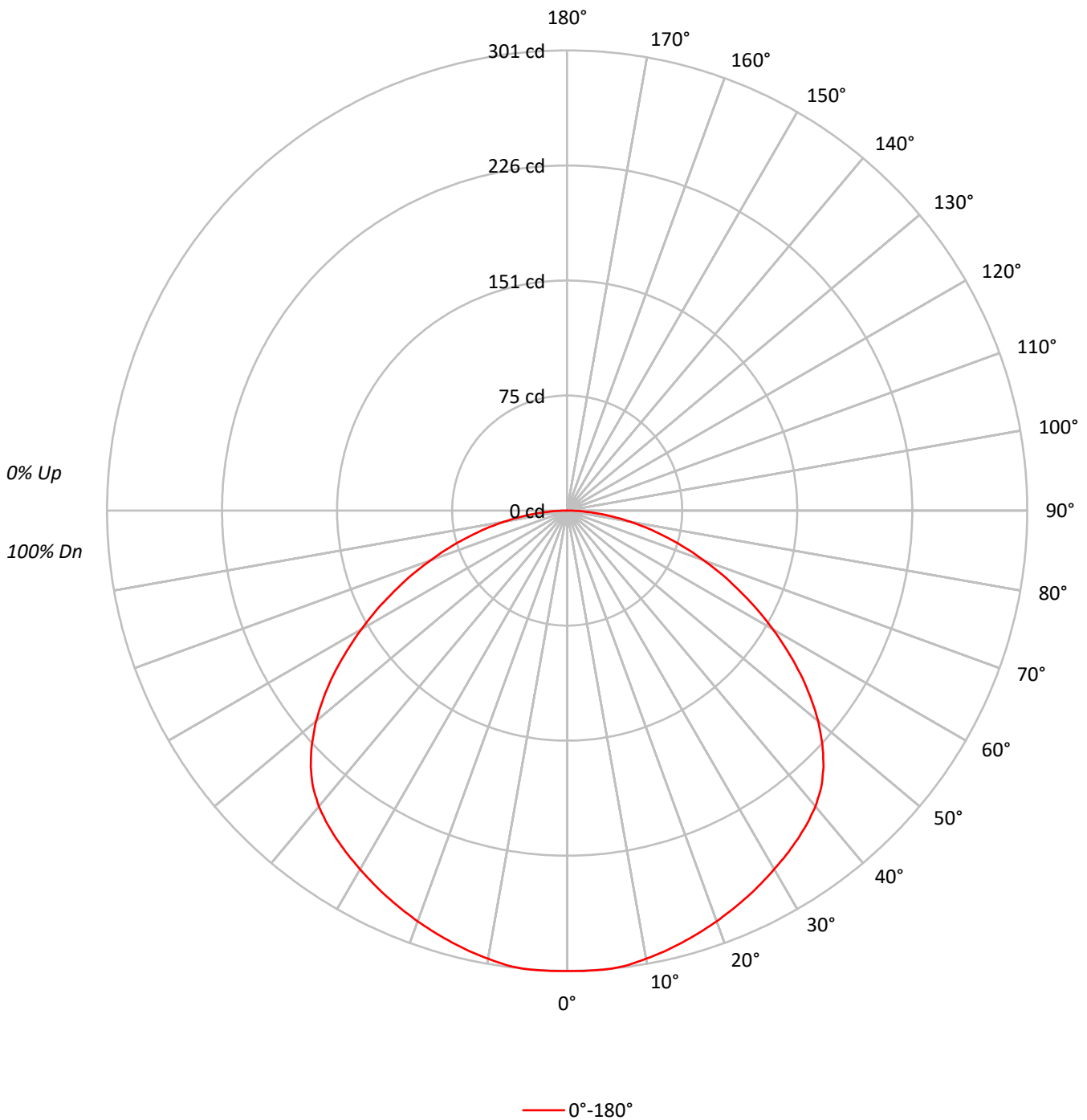
Lumens per Lamp: N/A
Luminaire Lumens: 969.2 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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°	1486
5°	1492
10°	1491
15°	1493
20°	1501
25°	1518
30°	1543
35°	1582
40°	1627
45°	1655
50°	1646
55°	1602
60°	1535
65°	1457
70°	1369
75°	1277
80°	1185
85°	1053

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1655 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.6	3.0
10°-20°	82.6	8.5
20°-30°	128.8	13.3
30°-40°	164.6	17.0
40°-50°	182.2	18.8
50°-60°	166.1	17.1
60°-70°	123.7	12.8
70°-80°	71.4	7.4
80°-90°	21.2	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°	240.1	24.8
0°-40°	404.6	41.7
0°-60°	752.9	77.7
0°-90°	969.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	969.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	301	
5°	301	29
15°	292	83
25°	279	129
35°	263	165
45°	237	182
55°	186	166
65°	125	124
75°	67	71
85°	19	21
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	301.2
2.5°	301.3
5°	301.2
7.5°	300.1
10°	297.7
12.5°	295.2
15°	292.3
17.5°	289.2
20°	285.9
22.5°	282.4
25°	278.8
27.5°	275.0
30°	270.9
32.5°	266.9
35°	262.6
37.5°	258.0
40°	252.6
42.5°	246.0
45°	237.2
47.5°	226.5
50°	214.4
52.5°	200.7
55°	186.2
57.5°	170.8
60°	155.6
62.5°	140.2
65°	124.8
67.5°	109.9
70°	94.9
72.5°	81.0
75°	67.0
77.5°	54.5
80°	41.7
82.5°	29.7
85°	18.6
87.5°	8.6
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	13.90	15.58	14.27	15.90	16.21	13.90	15.58	14.27	15.90	16.21
	3H	15.65	17.17	16.03	17.50	17.86	15.65	17.17	16.03	17.50	17.86
	4H	16.32	17.75	16.72	18.10	18.47	16.32	17.75	16.72	18.10	18.47
	6H	16.84	18.17	17.25	18.53	18.92	16.84	18.17	17.25	18.53	18.92
	8H	17.01	18.28	17.43	18.67	19.07	17.01	18.28	17.43	18.67	19.07
	12H	17.13	18.35	17.56	18.73	19.16	17.13	18.35	17.56	18.73	19.16
4H	2H	14.52	15.96	14.92	16.30	16.68	14.52	15.96	14.92	16.30	16.68
	3H	16.50	17.70	16.91	18.10	18.50	16.50	17.70	16.91	18.10	18.50
	4H	17.30	18.39	17.73	18.80	19.23	17.30	18.39	17.73	18.80	19.23
	6H	17.95	18.91	18.40	19.35	19.80	17.95	18.91	18.40	19.35	19.80
	8H	18.18	19.07	18.64	19.51	19.98	18.18	19.07	18.64	19.51	19.98
	12H	18.35	19.16	18.83	19.63	20.10	18.35	19.16	18.83	19.63	20.10
8H	4H	17.62	18.51	18.08	18.95	19.42	17.62	18.51	18.08	18.95	19.42
	6H	18.40	19.15	18.89	19.63	20.11	18.40	19.15	18.89	19.63	20.11
	8H	18.71	19.38	19.21	19.88	20.37	18.71	19.38	19.21	19.88	20.37
	12H	18.96	19.55	19.46	20.04	20.60	18.96	19.55	19.46	20.04	20.60
12H	4H	17.66	18.47	18.14	18.94	19.41	17.66	18.47	18.14	18.94	19.41
	6H	18.47	19.14	18.97	19.64	20.13	18.47	19.14	18.97	19.64	20.13
	8H	18.83	19.43	19.34	19.92	20.48	18.83	19.43	19.34	19.92	20.48