

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: P867139

Luminaire Tested: PRLX-2002-L-940-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867139
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-940-15L-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

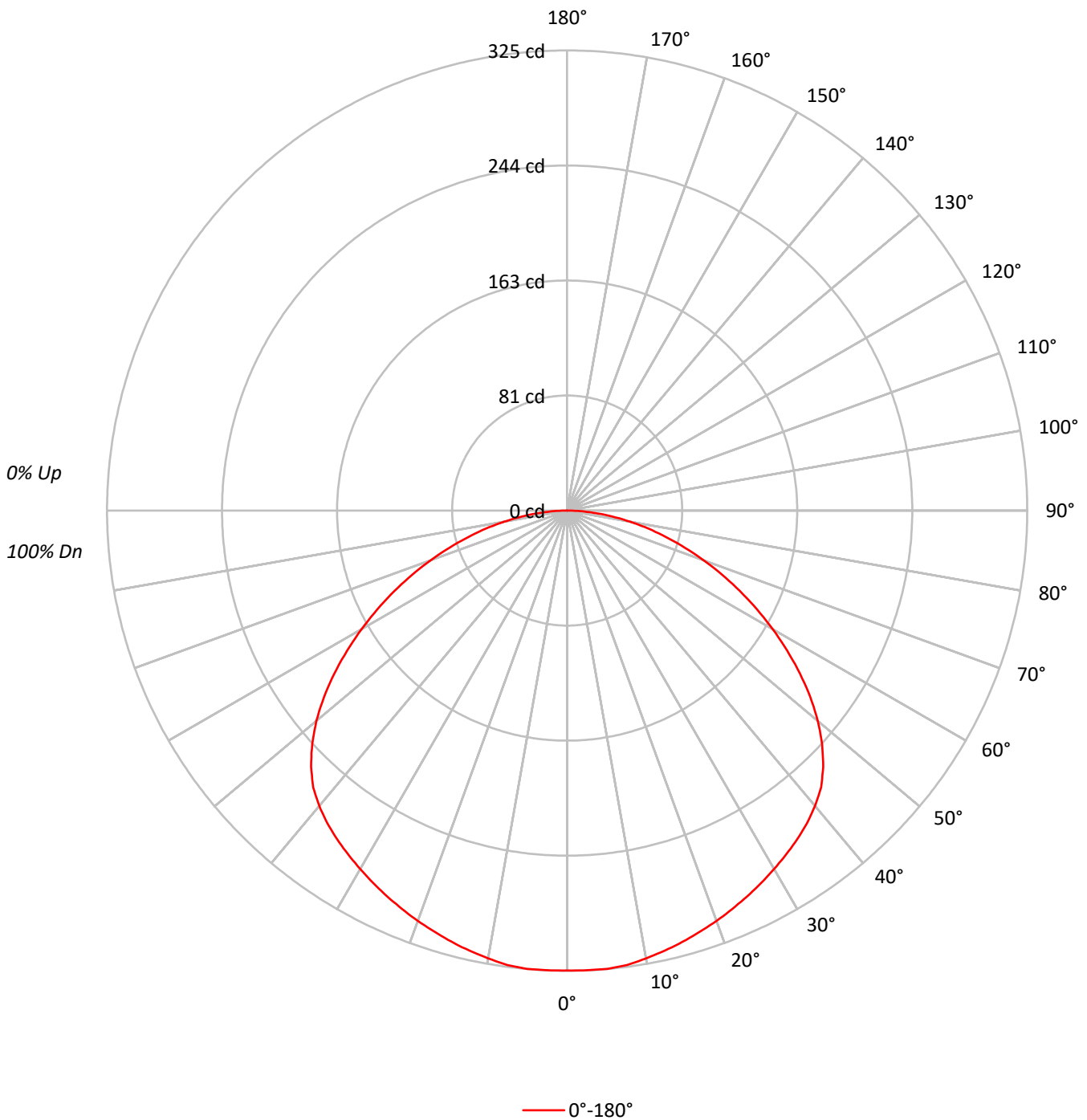
Lumens per Lamp: N/A
Luminaire Lumens: 1045.4 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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°	1603
5°	1609
10°	1609
15°	1611
20°	1619
25°	1637
30°	1665
35°	1706
40°	1754
45°	1785
50°	1775
55°	1727
60°	1656
65°	1571
70°	1477
75°	1378
80°	1279
85°	1138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1785 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	3.0
10°-20°	89.1	8.5
20°-30°	138.9	13.3
30°-40°	177.5	17.0
40°-50°	196.5	18.8
50°-60°	179.1	17.1
60°-70°	133.5	12.8
70°-80°	77.0	7.4
80°-90°	22.9	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°	258.9	24.8
0°-40°	436.4	41.7
0°-60°	812.1	77.7
0°-90°	1045.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1045.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	325	
5°	325	31
15°	315	89
25°	301	139
35°	283	178
45°	256	197
55°	201	179
65°	135	133
75°	72	77
85°	20	23
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	324.9
2.5°	325.0
5°	324.9
7.5°	323.8
10°	321.1
12.5°	318.4
15°	315.3
17.5°	311.9
20°	308.4
22.5°	304.6
25°	300.7
27.5°	296.6
30°	292.3
32.5°	287.9
35°	283.3
37.5°	278.3
40°	272.4
42.5°	265.4
45°	255.8
47.5°	244.3
50°	231.2
52.5°	216.5
55°	200.8
57.5°	184.2
60°	167.8
62.5°	151.2
65°	134.6
67.5°	118.6
70°	102.4
72.5°	87.3
75°	72.3
77.5°	58.8
80°	45.0
82.5°	32.1
85°	20.1
87.5°	9.3
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	14.17	15.84	14.53	16.16	16.47	14.17	15.84	14.53	16.16	16.47
	3H	15.92	17.44	16.29	17.76	18.12	15.92	17.44	16.29	17.76	18.12
	4H	16.58	18.01	16.98	18.36	18.74	16.58	18.01	16.98	18.36	18.74
	6H	17.10	18.43	17.51	18.79	19.18	17.10	18.43	17.51	18.79	19.18
	8H	17.27	18.55	17.70	18.93	19.33	17.27	18.55	17.70	18.93	19.33
	12H	17.40	18.62	17.83	19.00	19.43	17.40	18.62	17.83	19.00	19.43
4H	2H	14.79	16.22	15.18	16.57	16.94	14.79	16.22	15.18	16.57	16.94
	3H	16.76	17.97	17.17	18.36	18.76	16.76	17.97	17.17	18.36	18.76
	4H	17.56	18.65	17.99	19.06	19.50	17.56	18.65	17.99	19.06	19.50
	6H	18.21	19.17	18.67	19.61	20.06	18.21	19.17	18.67	19.61	20.06
	8H	18.44	19.34	18.90	19.78	20.24	18.44	19.34	18.90	19.78	20.24
	12H	18.61	19.42	19.09	19.89	20.36	18.61	19.42	19.09	19.89	20.36
8H	4H	17.88	18.78	18.34	19.22	19.68	17.88	18.78	18.34	19.22	19.68
	6H	18.67	19.41	19.16	19.90	20.37	18.67	19.41	19.16	19.90	20.37
	8H	18.97	19.64	19.48	20.15	20.63	18.97	19.64	19.48	20.15	20.63
	12H	19.22	19.82	19.73	20.31	20.87	19.22	19.82	19.73	20.31	20.87
12H	4H	17.92	18.73	18.40	19.20	19.67	17.92	18.73	18.40	19.20	19.67
	6H	18.73	19.40	19.24	19.91	20.39	18.73	19.40	19.24	19.91	20.39
	8H	19.10	19.69	19.60	20.18	20.74	19.10	19.69	19.60	20.18	20.74