

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: P865711

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

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-940-15L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

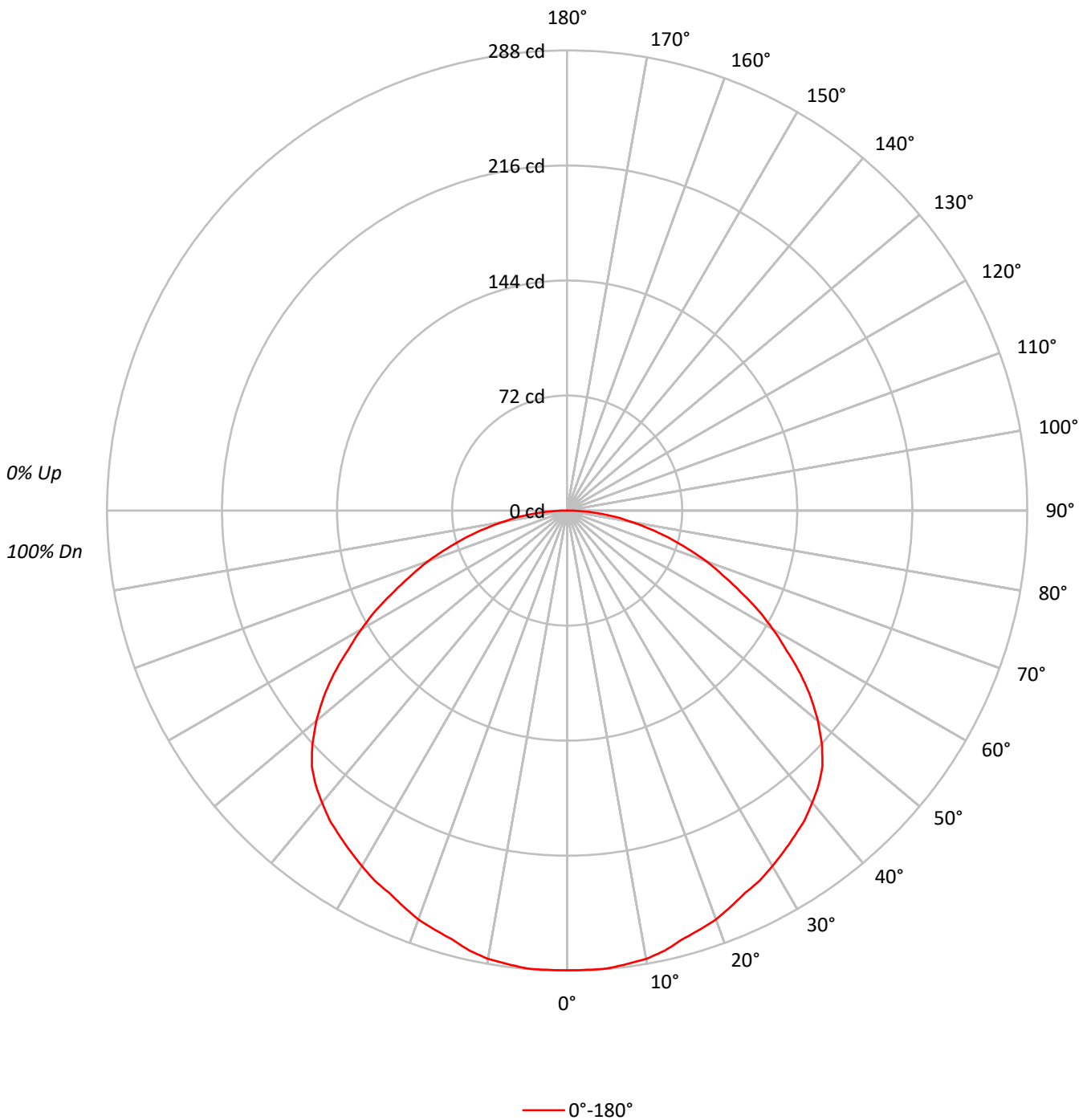
Lumens per Lamp: N/A
Luminaire Lumens: 926.6 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
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	87		89	87	85	83
2	98	90	82	76	95	88	81	76	84	78	74		81	76	72		78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61		71	65	60		68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44		56	49	44		54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39		51	44	38		49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34		46	39	34		44	38	33	31
8	59	45	37	31	57	45	36	30	43	36	30		42	35	30		41	34	30	28
9	55	41	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	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5404
5°	5425
10°	5434
15°	5404
20°	5443
25°	5470
30°	5572
35°	5696
40°	5851
45°	6004
50°	5988
55°	5839
60°	5590
65°	5303
70°	5086
75°	4790
80°	4403
85°	4246

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 6011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.4	3.0
10°-20°	78.7	8.5
20°-30°	122.2	13.2
30°-40°	155.7	16.8
40°-50°	173.3	18.7
50°-60°	158.8	17.1
60°-70°	118.8	12.8
70°-80°	69.8	7.5
80°-90°	22.0	2.4
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°	228.3	24.6
0°-40°	384.0	41.4
0°-60°	716.1	77.3
0°-90°	926.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	926.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	288	
5°	288	27
15°	278	79
25°	264	122
35°	248	156
45°	226	173
55°	178	159
65°	119	119
75°	66	70
85°	20	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	287.7
2.5°	287.7
5°	287.7
7.5°	286.3
10°	284.9
12.5°	282.1
15°	277.9
17.5°	275.1
20°	272.3
22.5°	268.1
25°	263.9
27.5°	261.1
30°	256.9
32.5°	252.7
35°	248.4
37.5°	244.2
40°	238.6
42.5°	233.0
45°	226.0
47.5°	216.2
50°	204.9
52.5°	192.3
55°	178.3
57.5°	162.8
60°	148.8
62.5°	134.7
65°	119.3
67.5°	105.3
70°	92.6
72.5°	78.6
75°	66.0
77.5°	53.3
80°	40.7
82.5°	30.9
85°	19.7
87.5°	9.8
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	18.37	20.05	18.73	20.36	20.68	18.37	20.05	18.73	20.36	20.68
	3H	20.15	21.68	20.53	22.00	22.36	20.15	21.68	20.53	22.00	22.36
	4H	20.85	22.28	21.24	22.63	23.01	20.85	22.28	21.24	22.63	23.01
	6H	21.38	22.72	21.79	23.08	23.47	21.38	22.72	21.79	23.08	23.47
	8H	21.58	22.85	22.00	23.24	23.64	21.58	22.85	22.00	23.24	23.64
	12H	21.73	22.95	22.15	23.33	23.76	21.73	22.95	22.15	23.33	23.76
4H	2H	18.99	20.43	19.39	20.78	21.15	18.99	20.43	19.39	20.78	21.15
	3H	21.01	22.22	21.42	22.62	23.02	21.01	22.22	21.42	22.62	23.02
	4H	21.84	22.94	22.27	23.35	23.79	21.84	22.94	22.27	23.35	23.79
	6H	22.51	23.47	22.97	23.91	24.37	22.51	23.47	22.97	23.91	24.37
	8H	22.77	23.67	23.23	24.11	24.57	22.77	23.67	23.23	24.11	24.57
	12H	22.97	23.78	23.45	24.26	24.73	22.97	23.78	23.45	24.26	24.73
8H	4H	22.18	23.08	22.64	23.52	23.98	22.18	23.08	22.64	23.52	23.98
	6H	22.98	23.73	23.47	24.22	24.69	22.98	23.73	23.47	24.22	24.69
	8H	23.32	24.00	23.83	24.50	24.99	23.32	24.00	23.83	24.50	24.99
	12H	23.62	24.22	24.12	24.71	25.26	23.62	24.22	24.12	24.71	25.26
12H	4H	22.22	23.03	22.70	23.51	23.97	22.22	23.03	22.70	23.51	23.97
	6H	23.05	23.73	23.56	24.23	24.72	23.05	23.73	23.56	24.23	24.72
	8H	23.46	24.06	23.97	24.55	25.11	23.46	24.06	23.97	24.55	25.11