

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: P866263

Luminaire Tested: PRLX-2002-M-930-65L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-M-930-65L-G-U-S-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 7
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

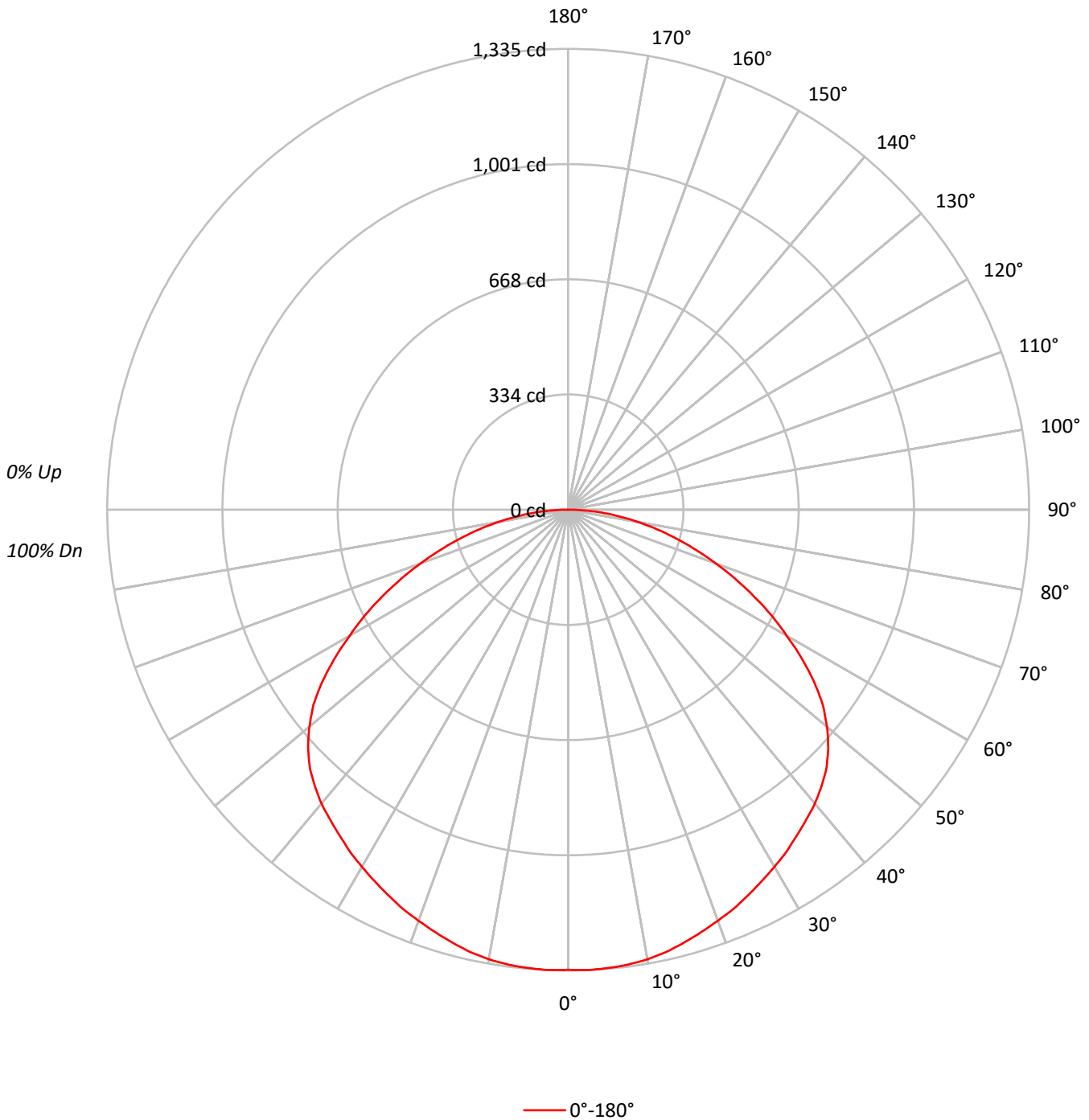
Lumens per Lamp: N/A
Luminaire Lumens: 4414.1 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.5
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 58.6
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	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	68	59	52	79	67	59	52	65	57	51	62	56	50	60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10604
5°	10645
10°	10684
15°	10693
20°	10729
25°	10820
30°	10974
35°	11199
40°	11545
45°	11904
50°	12111
55°	12062
60°	11636
65°	11163
70°	10577
75°	9990
80°	9424
85°	8836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 12155 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	2.9
10°-20°	366.8	8.3
20°-30°	569.3	12.9
30°-40°	723.6	16.4
40°-50°	813.8	18.4
50°-60°	773.2	17.5
60°-70°	587.3	13.3
70°-80°	345.2	7.8
80°-90°	108.0	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°	1063.1	24.1
0°-40°	1786.7	40.5
0°-60°	3373.7	76.4
0°-90°	4414.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4414.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1333	
5°	1333	127
15°	1298	367
25°	1233	569
35°	1153	724
45°	1058	814
55°	870	773
65°	593	587
75°	325	345
85°	97	108
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1332.9
2.5°	1334.6
5°	1332.9
7.5°	1329.4
10°	1322.5
12.5°	1312.1
15°	1298.3
17.5°	1282.8
20°	1267.2
22.5°	1251.6
25°	1232.6
27.5°	1213.6
30°	1194.6
32.5°	1175.6
35°	1153.1
37.5°	1132.4
40°	1111.6
42.5°	1085.7
45°	1058.0
47.5°	1021.7
50°	978.5
52.5°	930.1
55°	869.6
57.5°	802.2
60°	731.3
62.5°	663.9
65°	593.0
67.5°	523.8
70°	454.7
72.5°	389.0
75°	325.0
77.5°	264.5
80°	205.7
82.5°	148.7
85°	96.8
87.5°	48.4
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	21.02	22.72	21.39	23.03	23.35	21.02	22.72	21.39	23.03	23.35
	3H	22.82	24.36	23.20	24.68	25.04	22.82	24.36	23.20	24.68	25.04
	4H	23.51	24.97	23.91	25.31	25.69	23.51	24.97	23.91	25.31	25.69
	6H	24.06	25.41	24.47	25.77	26.16	24.06	25.41	24.47	25.77	26.16
	8H	24.26	25.55	24.68	25.93	26.33	24.26	25.55	24.68	25.93	26.33
	12H	24.40	25.64	24.83	26.02	26.45	24.40	25.64	24.83	26.02	26.45
4H	2H	21.66	23.11	22.06	23.46	23.83	21.66	23.11	22.06	23.46	23.83
	3H	23.68	24.91	24.09	25.30	25.70	23.68	24.91	24.09	25.30	25.70
	4H	24.51	25.62	24.94	26.03	26.47	24.51	25.62	24.94	26.03	26.47
	6H	25.20	26.17	25.65	26.61	27.07	25.20	26.17	25.65	26.61	27.07
	8H	25.45	26.36	25.91	26.80	27.27	25.45	26.36	25.91	26.80	27.27
	12H	25.65	26.47	26.13	26.95	27.41	25.65	26.47	26.13	26.95	27.41
8H	4H	24.85	25.76	25.31	26.20	26.67	24.85	25.76	25.31	26.20	26.67
	6H	25.68	26.44	26.17	26.92	27.40	25.68	26.44	26.17	26.92	27.40
	8H	26.01	26.69	26.52	27.20	27.68	26.01	26.69	26.52	27.20	27.68
	12H	26.30	26.90	26.80	27.39	27.95	26.30	26.90	26.80	27.39	27.95
12H	4H	24.90	25.72	25.38	26.19	26.66	24.90	25.72	25.38	26.19	26.66
	6H	25.75	26.44	26.26	26.94	27.42	25.75	26.44	26.26	26.94	27.42
	8H	26.15	26.75	26.65	27.24	27.80	26.15	26.75	26.65	27.24	27.80