

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: P865615

Luminaire Tested: PRLX-2002-S-930-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865615
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-930-05L-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 1
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

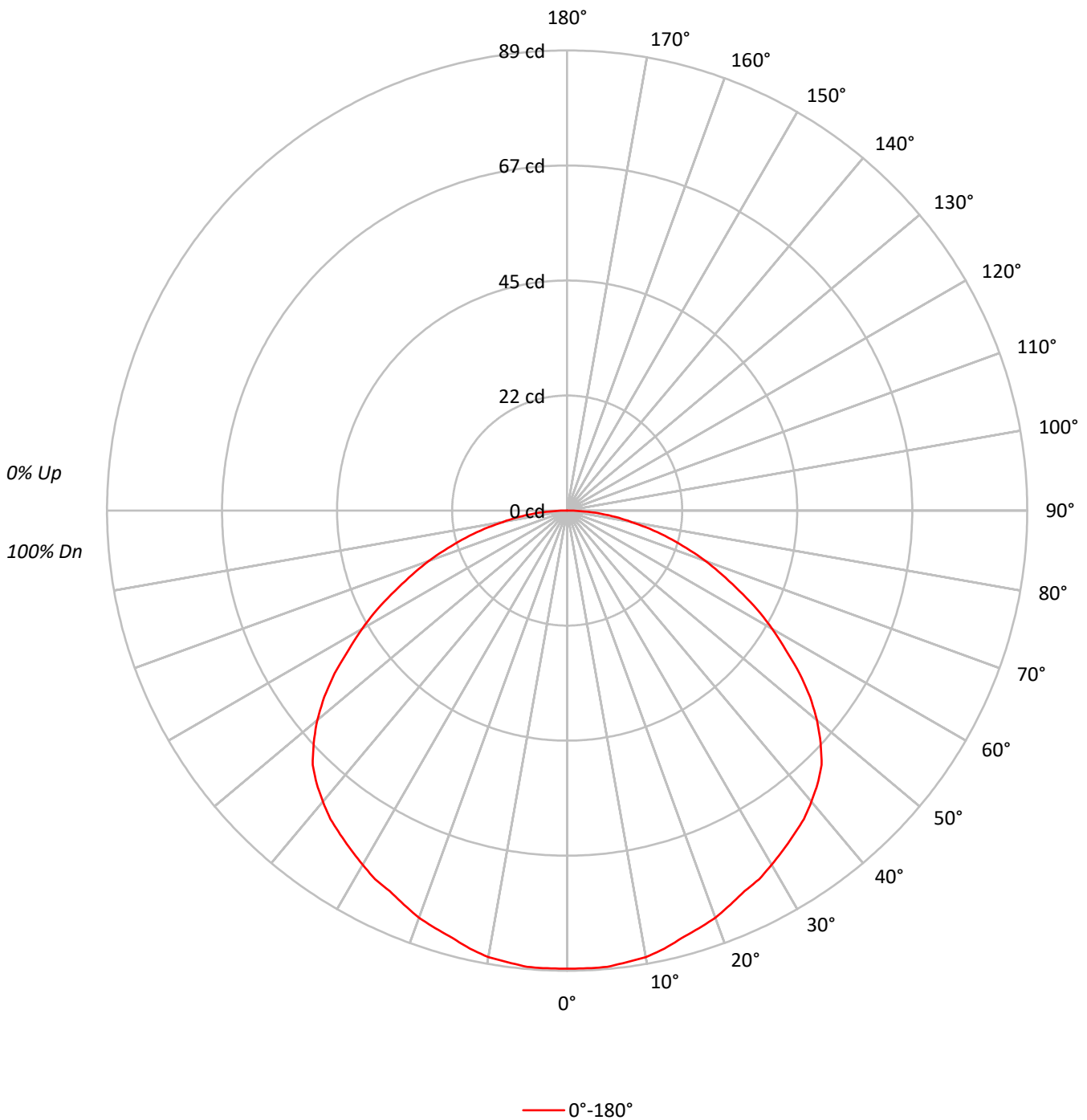
Lumens per Lamp: N/A
Luminaire Lumens: 285.2 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 6.2
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

TEST NUMBER: P865615

CATALOG NUMBER: PRLX-2002-S-930-05L-G-U-S-X-X-WHHR-X

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	79	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	52	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	58	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°	1664
5°	1671
10°	1673
15°	1665
20°	1675
25°	1683
30°	1716
35°	1754
40°	1802
45°	1849
50°	1844
55°	1798
60°	1721
65°	1631
70°	1565
75°	1473
80°	1352
85°	1293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	3.0
10°-20°	24.2	8.5
20°-30°	37.6	13.2
30°-40°	48.0	16.8
40°-50°	53.3	18.7
50°-60°	48.9	17.1
60°-70°	36.6	12.8
70°-80°	21.5	7.5
80°-90°	6.7	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°	70.3	24.6
0°-40°	118.2	41.5
0°-60°	220.5	77.3
0°-90°	285.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	285.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	89	
5°	89	8
15°	86	24
25°	81	38
35°	76	48
45°	70	53
55°	55	49
65°	37	37
75°	20	21
85°	6	7
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	88.6
2.5°	88.6
5°	88.6
7.5°	88.1
10°	87.7
12.5°	86.8
15°	85.6
17.5°	84.7
20°	83.8
22.5°	82.5
25°	81.2
27.5°	80.4
30°	79.1
32.5°	77.8
35°	76.5
37.5°	75.2
40°	73.5
42.5°	71.7
45°	69.6
47.5°	66.5
50°	63.1
52.5°	59.2
55°	54.9
57.5°	50.1
60°	45.8
62.5°	41.5
65°	36.7
67.5°	32.4
70°	28.5
72.5°	24.2
75°	20.3
77.5°	16.4
80°	12.5
82.5°	9.5
85°	6.0
87.5°	3.0
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	14.27	15.95	14.64	16.27	16.58	14.27	15.95	14.64	16.27	16.58
	3H	16.06	17.58	16.43	17.91	18.27	16.06	17.58	16.43	17.91	18.27
	4H	16.75	18.19	17.15	18.54	18.91	16.75	18.19	17.15	18.54	18.91
	6H	17.29	18.62	17.70	18.98	19.37	17.29	18.62	17.70	18.98	19.37
	8H	17.48	18.76	17.90	19.15	19.54	17.48	18.76	17.90	19.15	19.54
	12H	17.63	18.85	18.06	19.23	19.66	17.63	18.85	18.06	19.23	19.66
4H	2H	14.90	16.33	15.29	16.68	17.05	14.90	16.33	15.29	16.68	17.05
	3H	16.92	18.13	17.32	18.52	18.92	16.92	18.13	17.32	18.52	18.92
	4H	17.75	18.84	18.18	19.26	19.69	17.75	18.84	18.18	19.26	19.69
	6H	18.42	19.38	18.87	19.82	20.27	18.42	19.38	18.87	19.82	20.27
	8H	18.67	19.57	19.13	20.01	20.48	18.67	19.57	19.13	20.01	20.48
	12H	18.87	19.68	19.35	20.16	20.63	18.87	19.68	19.35	20.16	20.63
8H	4H	18.08	18.98	18.54	19.42	19.89	18.08	18.98	18.54	19.42	19.89
	6H	18.88	19.63	19.37	20.12	20.59	18.88	19.63	19.37	20.12	20.59
	8H	19.22	19.90	19.73	20.40	20.89	19.22	19.90	19.73	20.40	20.89
	12H	19.52	20.12	20.02	20.60	21.16	19.52	20.12	20.02	20.60	21.16
12H	4H	18.12	18.94	18.60	19.41	19.88	18.12	18.94	18.60	19.41	19.88
	6H	18.95	19.63	19.46	20.14	20.62	18.95	19.63	19.46	20.14	20.62
	8H	19.36	19.96	19.87	20.45	21.01	19.36	19.96	19.87	20.45	21.01