

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: P865575

Luminaire Tested: PRLX-2002-S-927-05L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865575
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-927-05L-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: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

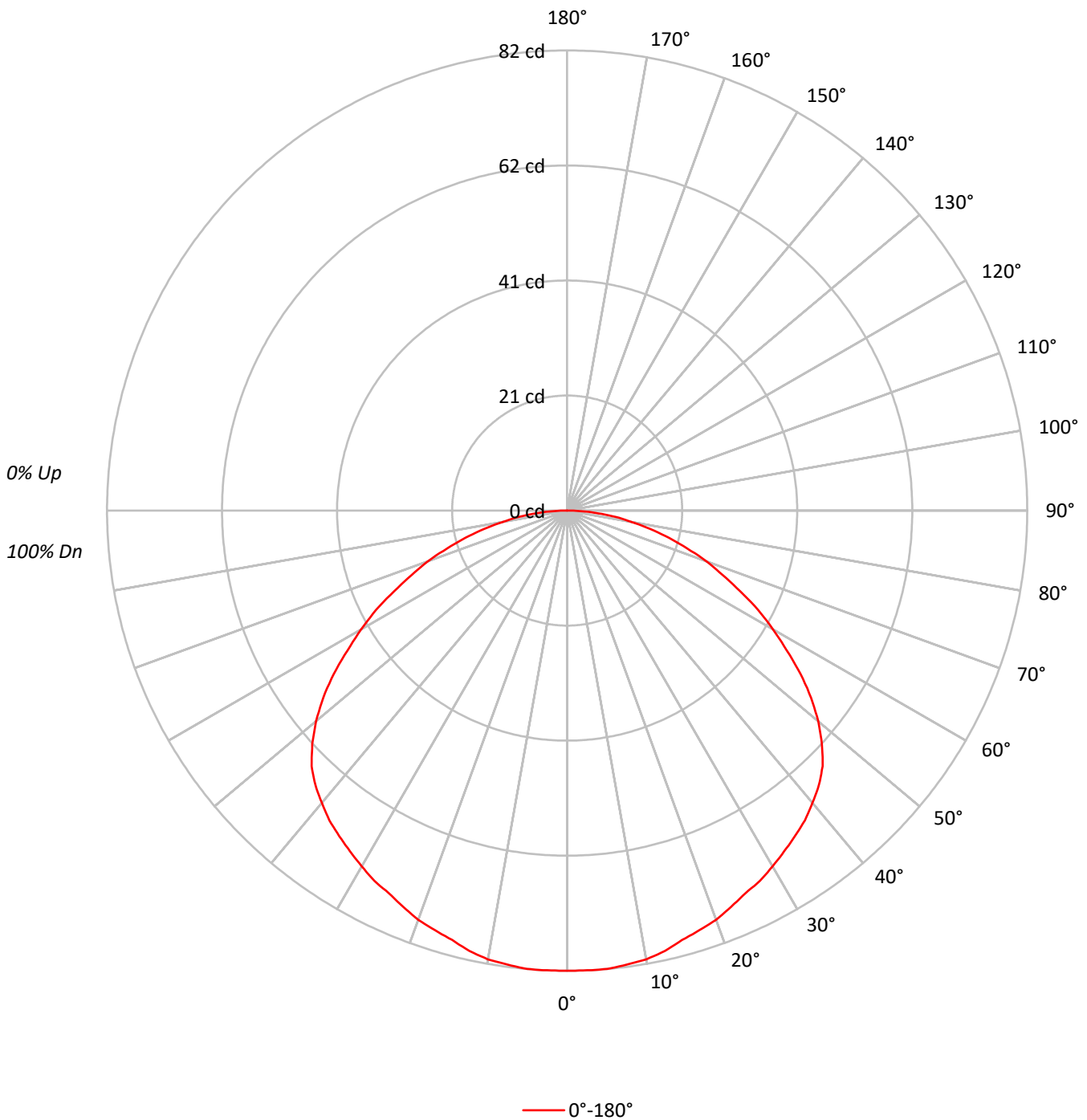
Lumens per Lamp: N/A
Luminaire Lumens: 264.1 lumens
Efficiency: N/A
Efficacy: 42.6 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.49
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

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: P865575

CATALOG NUMBER: PRLX-2002-S-927-05L-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	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°	1540
5°	1546
10°	1549
15°	1540
20°	1551
25°	1559
30°	1588
35°	1624
40°	1667
45°	1711
50°	1707
55°	1664
60°	1593
65°	1511
70°	1450
75°	1364
80°	1255
85°	1207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 47.5°
 Luminance: 1713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	3.0
10°-20°	22.4	8.5
20°-30°	34.8	13.2
30°-40°	44.4	16.8
40°-50°	49.4	18.7
50°-60°	45.3	17.1
60°-70°	33.8	12.8
70°-80°	19.9	7.5
80°-90°	6.3	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°	65.1	24.6
0°-40°	109.4	41.4
0°-60°	204.1	77.3
0°-90°	264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	264.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	82	
5°	82	8
15°	79	22
25°	75	35
35°	71	44
45°	64	49
55°	51	45
65°	34	34
75°	19	20
85°	6	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	82.0
2.5°	82.0
5°	82.0
7.5°	81.6
10°	81.2
12.5°	80.4
15°	79.2
17.5°	78.4
20°	77.6
22.5°	76.4
25°	75.2
27.5°	74.4
30°	73.2
32.5°	72.0
35°	70.8
37.5°	69.6
40°	68.0
42.5°	66.4
45°	64.4
47.5°	61.6
50°	58.4
52.5°	54.8
55°	50.8
57.5°	46.4
60°	42.4
62.5°	38.4
65°	34.0
67.5°	30.0
70°	26.4
72.5°	22.4
75°	18.8
77.5°	15.2
80°	11.6
82.5°	8.8
85°	5.6
87.5°	2.8
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	14.01	15.69	14.37	16.00	16.32	14.01	15.69	14.37	16.00	16.32
	3H	15.79	17.32	16.17	17.64	18.00	15.79	17.32	16.17	17.64	18.00
	4H	16.48	17.92	16.88	18.27	18.64	16.48	17.92	16.88	18.27	18.64
	6H	17.02	18.36	17.43	18.72	19.11	17.02	18.36	17.43	18.72	19.11
	8H	17.22	18.49	17.64	18.88	19.28	17.22	18.49	17.64	18.88	19.28
	12H	17.36	18.59	17.79	18.97	19.40	17.36	18.59	17.79	18.97	19.40
4H	2H	14.63	16.07	15.03	16.42	16.79	14.63	16.07	15.03	16.42	16.79
	3H	16.65	17.86	17.06	18.26	18.65	16.65	17.86	17.06	18.26	18.65
	4H	17.48	18.58	17.91	18.99	19.42	17.48	18.58	17.91	18.99	19.42
	6H	18.15	19.11	18.60	19.55	20.01	18.15	19.11	18.60	19.55	20.01
	8H	18.41	19.31	18.87	19.75	20.21	18.41	19.31	18.87	19.75	20.21
	12H	18.61	19.42	19.09	19.90	20.36	18.61	19.42	19.09	19.90	20.36
8H	4H	17.82	18.72	18.27	19.16	19.62	17.82	18.72	18.27	19.16	19.62
	6H	18.62	19.37	19.11	19.86	20.33	18.62	19.37	19.11	19.86	20.33
	8H	18.96	19.64	19.47	20.14	20.63	18.96	19.64	19.47	20.14	20.63
	12H	19.26	19.85	19.76	20.34	20.90	19.26	19.85	19.76	20.34	20.90
12H	4H	17.86	18.67	18.34	19.14	19.61	17.86	18.67	18.34	19.14	19.61
	6H	18.69	19.37	19.20	19.87	20.36	18.69	19.37	19.20	19.87	20.36
	8H	19.10	19.70	19.61	20.19	20.75	19.10	19.70	19.61	20.19	20.75