

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: P865759

Luminaire Tested: PRLX-2004-S-927-20L-G-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-S-927-20L-G-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

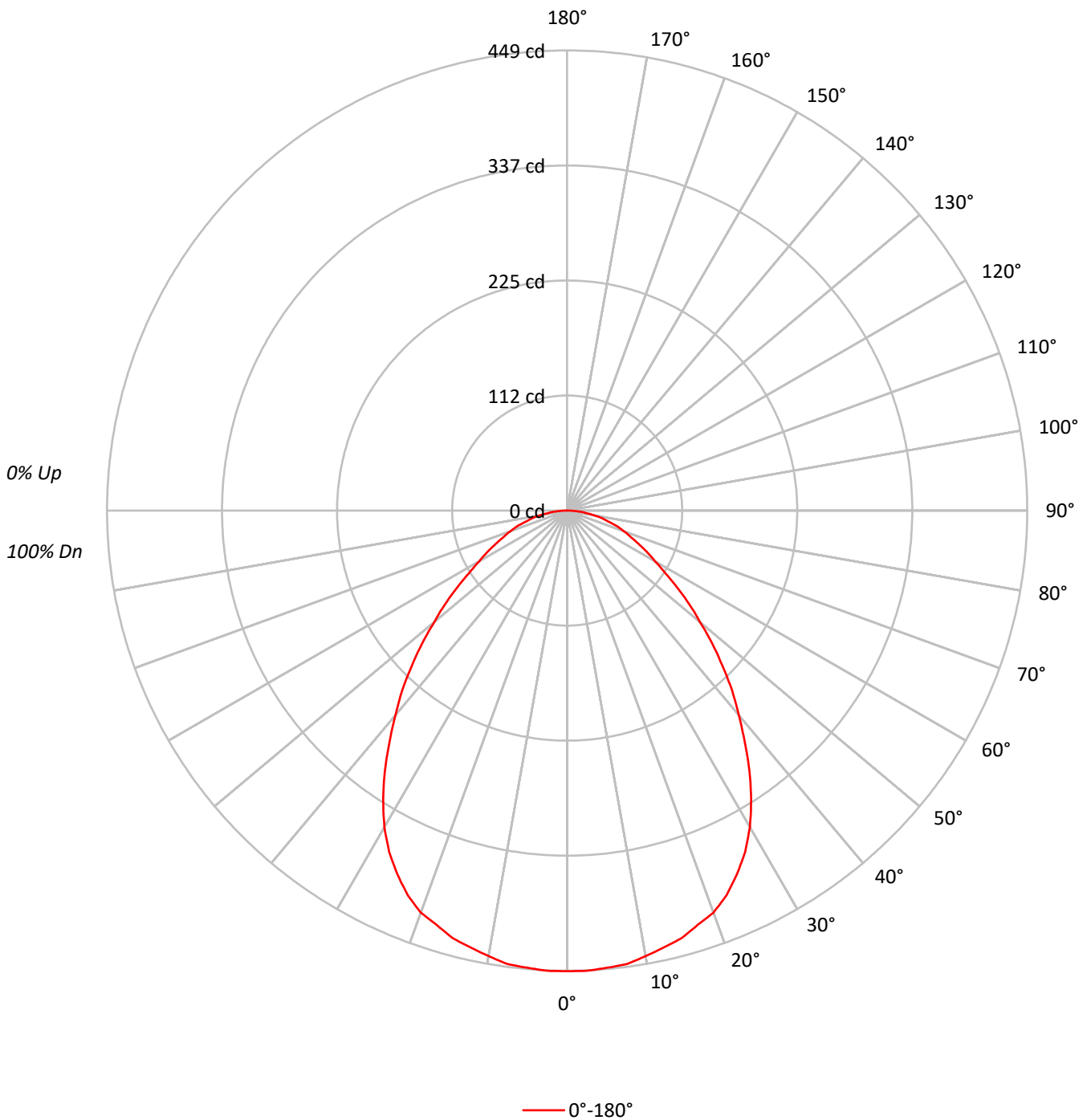
Lumens per Lamp: N/A
Luminaire Lumens: 957.0 lumens
Efficiency: N/A
Efficacy: 43.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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: 0.5 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	50	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7330
5°	7332
10°	7310
15°	7291
20°	7245
25°	7051
30°	6716
35°	6176
40°	5551
45°	4943
50°	4301
55°	3728
60°	3233
65°	2964
70°	2823
75°	2622
80°	2555
85°	2395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4943 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	4.4
10°-20°	121.6	12.7
20°-30°	179.8	18.8
30°-40°	193.2	20.2
40°-50°	165.5	17.3
50°-60°	118.1	12.3
60°-70°	77.0	8.0
70°-80°	45.2	4.7
80°-90°	14.1	1.5
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°	344.0	35.9
0°-40°	537.2	56.1
0°-60°	820.7	85.8
0°-90°	957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	957.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	449	
5°	448	43
15°	432	122
25°	392	180
35°	310	193
45°	214	165
55°	131	118
65°	77	77
75°	42	45
85°	13	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	449.4
2.5°	449.4
5°	447.8
7.5°	446.2
10°	441.4
12.5°	436.6
15°	431.8
17.5°	423.8
20°	417.4
22.5°	406.2
25°	391.8
27.5°	375.8
30°	356.6
32.5°	334.2
35°	310.2
37.5°	284.6
40°	260.7
42.5°	238.3
45°	214.3
47.5°	191.9
50°	169.5
52.5°	150.3
55°	131.1
57.5°	113.5
60°	99.1
62.5°	88.0
65°	76.8
67.5°	67.2
70°	59.2
72.5°	51.2
75°	41.6
77.5°	35.2
80°	27.2
82.5°	19.2
85°	12.8
87.5°	6.4
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	15.48	16.97	15.85	17.29	17.60	15.48	16.97	15.85	17.29	17.60
	3H	17.01	18.35	17.39	18.68	19.04	17.01	18.35	17.39	18.68	19.04
	4H	17.63	18.89	18.03	19.24	19.62	17.63	18.89	18.03	19.24	19.62
	6H	18.15	19.31	18.56	19.68	20.07	18.15	19.31	18.56	19.68	20.07
	8H	18.32	19.43	18.75	19.82	20.22	18.32	19.43	18.75	19.82	20.22
	12H	18.45	19.51	18.88	19.89	20.32	18.45	19.51	18.88	19.89	20.32
4H	2H	15.98	17.24	16.38	17.58	17.96	15.98	17.24	16.38	17.58	17.96
	3H	17.77	18.82	18.18	19.22	19.62	17.77	18.82	18.18	19.22	19.62
	4H	18.52	19.46	18.96	19.88	20.32	18.52	19.46	18.96	19.88	20.32
	6H	19.19	20.00	19.64	20.45	20.91	19.19	20.00	19.64	20.45	20.91
	8H	19.41	20.17	19.87	20.62	21.09	19.41	20.17	19.87	20.62	21.09
	12H	19.59	20.27	20.07	20.75	21.22	19.59	20.27	20.07	20.75	21.22
8H	4H	18.81	19.58	19.28	20.02	20.49	18.81	19.58	19.28	20.02	20.49
	6H	19.61	20.25	20.11	20.74	21.21	19.61	20.25	20.11	20.74	21.21
	8H	19.92	20.49	20.43	21.00	21.48	19.92	20.49	20.43	21.00	21.48
	12H	20.18	20.69	20.69	21.18	21.74	20.18	20.69	20.69	21.18	21.74
12H	4H	18.84	19.53	19.33	20.01	20.48	18.84	19.53	19.33	20.01	20.48
	6H	19.67	20.24	20.18	20.75	21.24	19.67	20.24	20.18	20.75	21.24
	8H	20.04	20.54	20.54	21.03	21.60	20.04	20.54	20.54	21.03	21.60