

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: P865917

Luminaire Tested: PRLX-2001-M-927-35L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-35L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

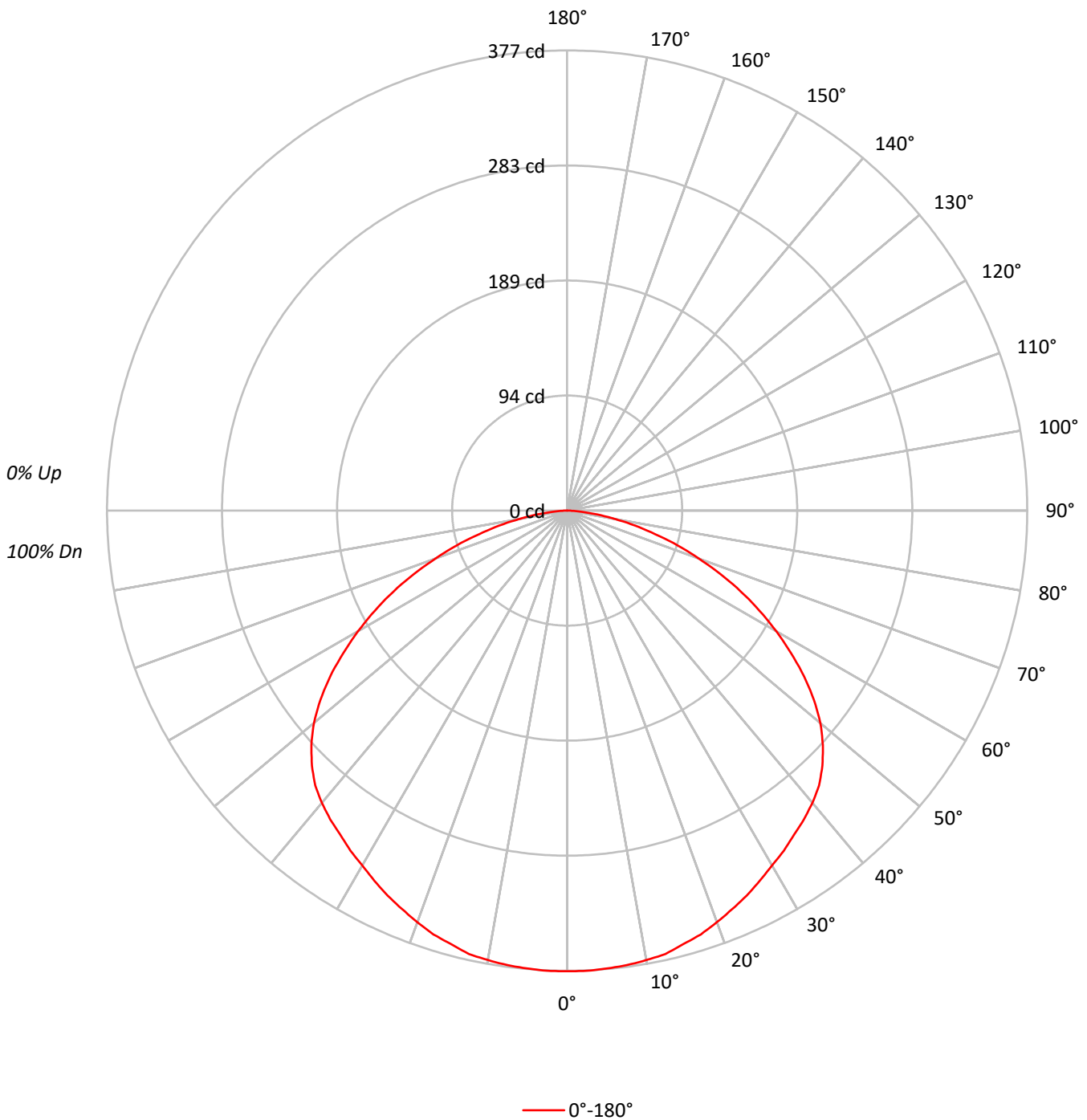
Lumens per Lamp: N/A
Luminaire Lumens: 1194.2 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.49
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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: P865917

CATALOG NUMBER: PRLX-2001-M-927-35L-G-U-S-X-X-BRSS-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	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	37
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3203
5°	3207
10°	3222
15°	3230
20°	3240
25°	3259
30°	3289
35°	3358
40°	3463
45°	3549
50°	3576
55°	3508
60°	3360
65°	3157
70°	2843
75°	2446
80°	1955
85°	1207

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 3576 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	3.0
10°-20°	104.0	8.7
20°-30°	160.6	13.4
30°-40°	203.5	17.0
40°-50°	227.5	19.0
50°-60°	211.1	17.7
60°-70°	155.1	13.0
70°-80°	80.0	6.7
80°-90°	16.6	1.4
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°	300.4	25.2
0°-40°	503.9	42.2
0°-60°	942.5	78.9
0°-90°	1194.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	377	
5°	376	36
15°	368	104
25°	348	161
35°	324	203
45°	296	227
55°	237	211
65°	157	155
75°	75	80
85°	12	17
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	377.4
2.5°	377.4
5°	376.5
7.5°	375.6
10°	373.9
12.5°	372.1
15°	367.7
17.5°	364.1
20°	358.8
22.5°	353.4
25°	348.1
27.5°	341.9
30°	335.7
32.5°	330.4
35°	324.1
37.5°	318.8
40°	312.6
42.5°	305.5
45°	295.7
47.5°	284.2
50°	270.9
52.5°	254.9
55°	237.1
57.5°	217.6
60°	198.0
62.5°	177.6
65°	157.2
67.5°	135.9
70°	114.6
72.5°	95.0
75°	74.6
77.5°	56.8
80°	40.0
82.5°	24.9
85°	12.4
87.5°	3.6
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	16.76	18.43	17.12	18.74	19.05	16.76	18.43	17.12	18.74	19.05
	3H	18.40	19.91	18.77	20.23	20.59	18.40	19.91	18.77	20.23	20.59
	4H	18.94	20.36	19.34	20.71	21.09	18.94	20.36	19.34	20.71	21.09
	6H	19.29	20.60	19.70	20.97	21.36	19.29	20.60	19.70	20.97	21.36
	8H	19.37	20.63	19.79	21.01	21.41	19.37	20.63	19.79	21.01	21.41
	12H	19.40	20.61	19.83	20.99	21.42	19.40	20.61	19.83	20.99	21.42
4H	2H	17.37	18.79	17.76	19.13	19.51	17.37	18.79	17.76	19.13	19.51
	3H	19.21	20.39	19.62	20.79	21.19	19.21	20.39	19.62	20.79	21.19
	4H	19.86	20.93	20.29	21.35	21.78	19.86	20.93	20.29	21.35	21.78
	6H	20.31	21.24	20.76	21.68	22.14	20.31	21.24	20.76	21.68	22.14
	8H	20.42	21.29	20.88	21.74	22.20	20.42	21.29	20.88	21.74	22.20
	12H	20.48	21.26	20.96	21.74	22.21	20.48	21.26	20.96	21.74	22.21
8H	4H	20.11	20.99	20.57	21.43	21.89	20.11	20.99	20.57	21.43	21.89
	6H	20.64	21.37	21.14	21.86	22.33	20.64	21.37	21.14	21.86	22.33
	8H	20.80	21.45	21.31	21.96	22.44	20.80	21.45	21.31	21.96	22.44
	12H	20.89	21.47	21.40	21.96	22.52	20.89	21.47	21.40	21.96	22.52
12H	4H	20.13	20.92	20.61	21.39	21.86	20.13	20.92	20.61	21.39	21.86
	6H	20.67	21.32	21.18	21.83	22.31	20.67	21.32	21.18	21.83	22.31
	8H	20.87	21.44	21.37	21.93	22.49	20.87	21.44	21.37	21.93	22.49