

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: P867075

Luminaire Tested: PRLX-2002-L-935-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-L-935-15L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

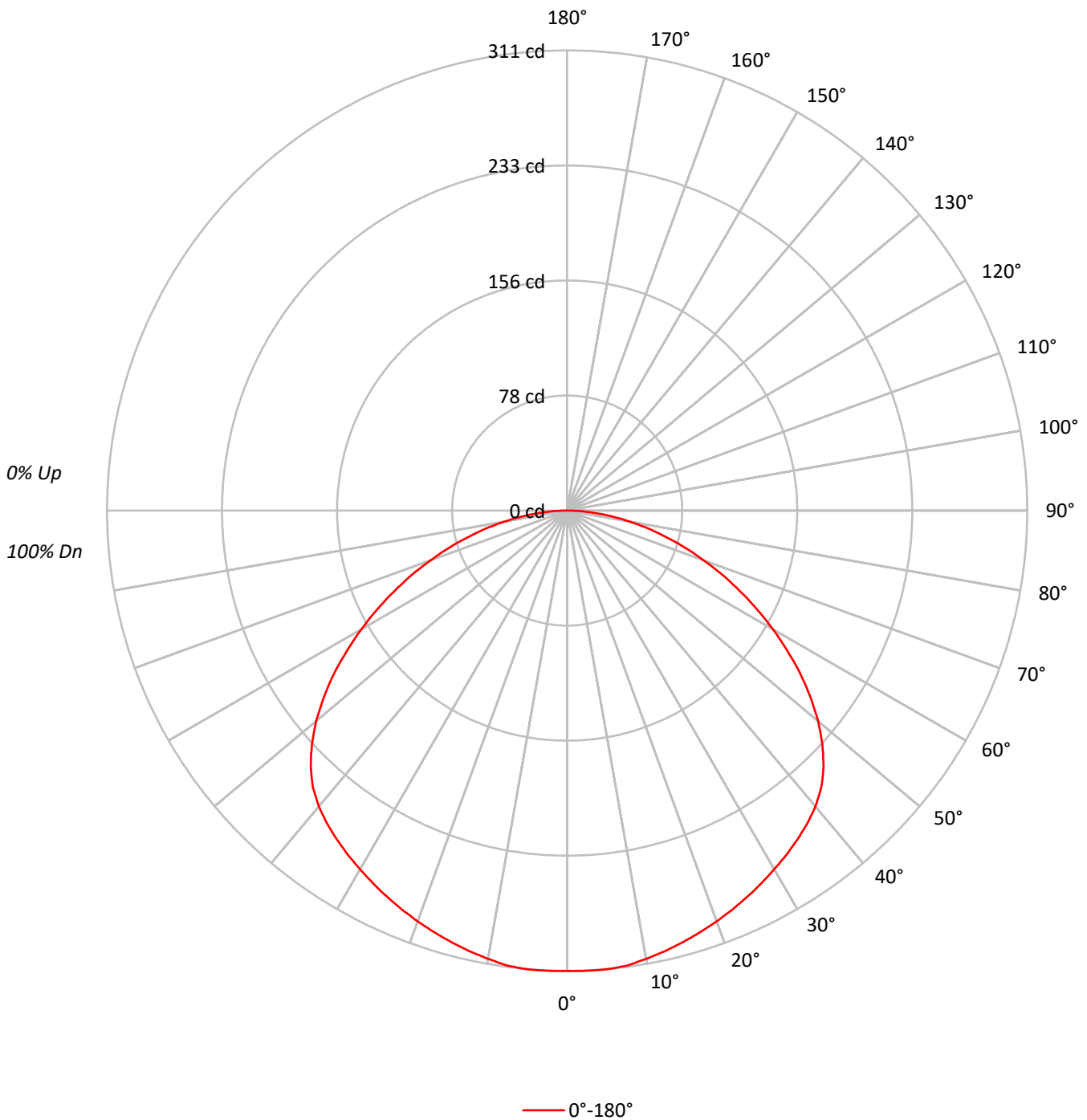
Lumens per Lamp: N/A
Luminaire Lumens: 1001.4 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.49
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
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: P867075

CATALOG NUMBER: PRLX-2002-L-935-15L-G-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	94	90		93	90	88		89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	60		68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52		63	56	51		61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45		56	49	44		54	48	44	42
6	69	55	46	39	67	54	46	39	52	45	39		51	44	39		49	43	38	36
7	64	50	41	35	62	49	41	34	47	40	34		46	39	34		45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30		42	35	30		41	35	30	28
9	55	42	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	30	25		36	29	24		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1535
5°	1541
10°	1541
15°	1543
20°	1551
25°	1568
30°	1595
35°	1634
40°	1681
45°	1710
50°	1700
55°	1655
60°	1586
65°	1505
70°	1415
75°	1319
80°	1225
85°	1093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1710 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.6	3.0
10°-20°	85.4	8.5
20°-30°	133.0	13.3
30°-40°	170.0	17.0
40°-50°	188.3	18.8
50°-60°	171.6	17.1
60°-70°	127.8	12.8
70°-80°	73.8	7.4
80°-90°	21.9	2.2
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°	248.0	24.8
0°-40°	418.1	41.7
0°-60°	777.9	77.7
0°-90°	1001.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	311	
5°	311	30
15°	302	85
25°	288	133
35°	271	170
45°	245	188
55°	192	172
65°	129	128
75°	69	74
85°	19	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	311.2
2.5°	311.3
5°	311.2
7.5°	310.1
10°	307.6
12.5°	305.0
15°	302.0
17.5°	298.8
20°	295.4
22.5°	291.8
25°	288.0
27.5°	284.1
30°	279.9
32.5°	275.8
35°	271.3
37.5°	266.6
40°	261.0
42.5°	254.2
45°	245.1
47.5°	234.0
50°	221.5
52.5°	207.3
55°	192.4
57.5°	176.5
60°	160.7
62.5°	144.8
65°	128.9
67.5°	113.6
70°	98.1
72.5°	83.7
75°	69.2
77.5°	56.3
80°	43.1
82.5°	30.7
85°	19.3
87.5°	8.9
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	14.02	15.70	14.38	16.01	16.32	14.02	15.70	14.38	16.01	16.32
	3H	15.77	17.29	16.14	17.61	17.97	15.77	17.29	16.14	17.61	17.97
	4H	16.43	17.87	16.83	18.21	18.59	16.43	17.87	16.83	18.21	18.59
	6H	16.95	18.28	17.36	18.64	19.03	16.95	18.28	17.36	18.64	19.03
	8H	17.13	18.40	17.55	18.78	19.18	17.13	18.40	17.55	18.78	19.18
	12H	17.25	18.47	17.68	18.85	19.28	17.25	18.47	17.68	18.85	19.28
4H	2H	14.64	16.07	15.03	16.42	16.79	14.64	16.07	15.03	16.42	16.79
	3H	16.61	17.82	17.02	18.21	18.61	16.61	17.82	17.02	18.21	18.61
	4H	17.41	18.50	17.84	18.91	19.35	17.41	18.50	17.84	18.91	19.35
	6H	18.06	19.02	18.52	19.46	19.91	18.06	19.02	18.52	19.46	19.91
	8H	18.29	19.19	18.75	19.63	20.09	18.29	19.19	18.75	19.63	20.09
	12H	18.46	19.27	18.94	19.74	20.21	18.46	19.27	18.94	19.74	20.21
8H	4H	17.73	18.63	18.19	19.07	19.53	17.73	18.63	18.19	19.07	19.53
	6H	18.52	19.26	19.01	19.75	20.22	18.52	19.26	19.01	19.75	20.22
	8H	18.82	19.49	19.33	20.00	20.48	18.82	19.49	19.33	20.00	20.48
	12H	19.07	19.67	19.58	20.16	20.72	19.07	19.67	19.58	20.16	20.72
12H	4H	17.77	18.58	18.25	19.05	19.52	17.77	18.58	18.25	19.05	19.52
	6H	18.58	19.25	19.09	19.76	20.24	18.58	19.25	19.09	19.76	20.24
	8H	18.95	19.54	19.45	20.03	20.59	18.95	19.54	19.45	20.03	20.59