

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: P866835

Luminaire Tested: PRLX-2001-L-935-48L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-48L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

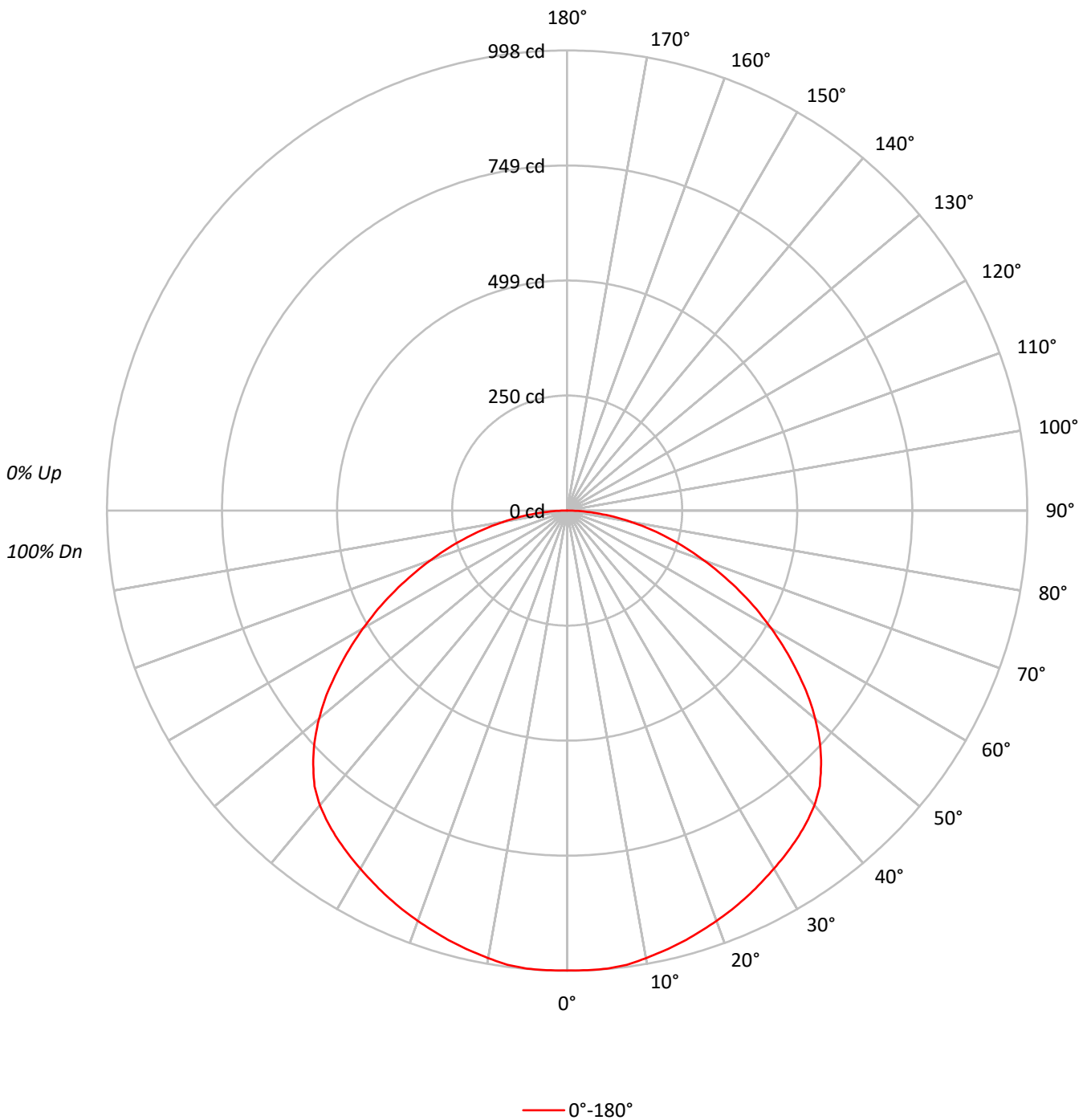
Lumens per Lamp: N/A
Luminaire Lumens: 3201.5 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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

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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	108	103	99	95	106	101	97	93	97	93	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	28	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	25		35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5452
5°	5473
10°	5471
15°	5479
20°	5510
25°	5571
30°	5662
35°	5800
40°	5955
45°	6023
50°	5976
55°	5805
60°	5586
65°	5332
70°	5046
75°	4740
80°	4414
85°	3945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6023 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	3.0
10°-20°	273.6	8.5
20°-30°	426.5	13.3
30°-40°	544.3	17.0
40°-50°	599.2	18.7
50°-60°	544.4	17.0
60°-70°	408.4	12.8
70°-80°	238.7	7.5
80°-90°	71.5	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°	795.0	24.8
0°-40°	1339.3	41.8
0°-60°	2482.9	77.6
0°-90°	3201.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	997	
5°	997	95
15°	968	274
25°	924	427
35°	869	544
45°	779	599
55°	609	544
65°	412	408
75°	224	239
85°	63	71
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	997.3
2.5°	997.8
5°	997.3
7.5°	993.8
10°	985.6
12.5°	977.3
15°	968.1
17.5°	957.6
20°	947.1
22.5°	935.8
25°	923.5
27.5°	910.4
30°	896.9
32.5°	883.4
35°	869.0
37.5°	852.8
40°	834.5
42.5°	810.9
45°	779.0
47.5°	743.6
50°	702.6
52.5°	658.1
55°	609.1
57.5°	560.7
60°	510.9
62.5°	462.4
65°	412.2
67.5°	362.9
70°	315.7
72.5°	270.3
75°	224.4
77.5°	182.5
80°	140.2
82.5°	100.4
85°	62.9
87.5°	29.3
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	18.37	20.05	18.73	20.36	20.67	18.37	20.05	18.73	20.36	20.67
	3H	20.14	21.66	20.52	21.99	22.35	20.14	21.66	20.52	21.99	22.35
	4H	20.83	22.26	21.23	22.61	22.98	20.83	22.26	21.23	22.61	22.98
	6H	21.36	22.69	21.77	23.06	23.45	21.36	22.69	21.77	23.06	23.45
	8H	21.54	22.82	21.97	23.20	23.60	21.54	22.82	21.97	23.20	23.60
	12H	21.67	22.89	22.10	23.27	23.70	21.67	22.89	22.10	23.27	23.70
4H	2H	19.00	20.43	19.39	20.78	21.15	19.00	20.43	19.39	20.78	21.15
	3H	21.00	22.21	21.41	22.60	23.00	21.00	22.21	21.41	22.60	23.00
	4H	21.82	22.91	22.25	23.32	23.76	21.82	22.91	22.25	23.32	23.76
	6H	22.49	23.45	22.94	23.89	24.34	22.49	23.45	22.94	23.89	24.34
	8H	22.73	23.62	23.18	24.06	24.53	22.73	23.62	23.18	24.06	24.53
	12H	22.90	23.71	23.38	24.18	24.65	22.90	23.71	23.38	24.18	24.65
8H	4H	22.15	23.05	22.61	23.49	23.95	22.15	23.05	22.61	23.49	23.95
	6H	22.95	23.70	23.44	24.19	24.66	22.95	23.70	23.44	24.19	24.66
	8H	23.27	23.94	23.77	24.44	24.93	23.27	23.94	23.77	24.44	24.93
	12H	23.53	24.12	24.03	24.61	25.17	23.53	24.12	24.03	24.61	25.17
12H	4H	22.19	23.00	22.67	23.47	23.94	22.19	23.00	22.67	23.47	23.94
	6H	23.02	23.69	23.53	24.20	24.68	23.02	23.69	23.53	24.20	24.68
	8H	23.40	23.99	23.90	24.48	25.04	23.40	23.99	23.90	24.48	25.04