

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: P866847

Luminaire Tested: PRLX-2001-L-935-83L-L-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-L-935-83L-L-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

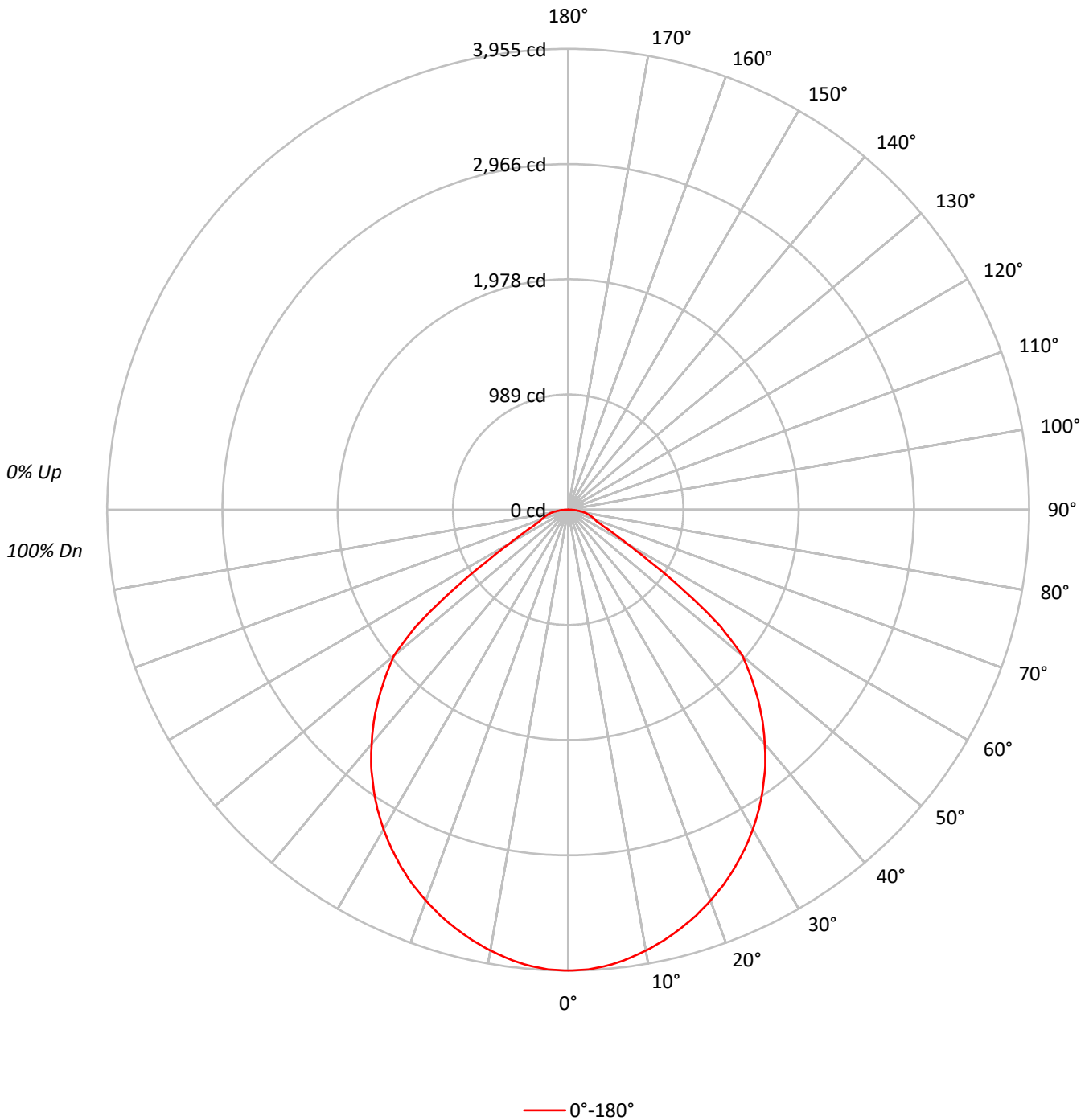
Lumens per Lamp: N/A
Luminaire Lumens: 8317.0 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 64.5
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	111	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62		71	66	62		69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55		65	59	55		63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49		59	53	49		58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40		50	44	39		49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36		46	40	36		45	40	36	34
10	58	45	38	33	56	45	38	33	44	37	33		43	37	33		42	37	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21623
5°	21547
10°	21325
15°	21064
20°	20767
25°	20423
30°	19993
35°	19441
40°	18728
45°	17799
50°	16609
55°	11665
60°	6315
65°	4300
70°	3908
75°	4151
80°	4464
85°	4773

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17799 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.1	4.5
10°-20°	1049.5	12.6
20°-30°	1558.9	18.7
30°-40°	1820.2	21.9
40°-50°	1771.7	21.3
50°-60°	1102.4	13.3
60°-70°	355.4	4.3
70°-80°	206.2	2.5
80°-90°	80.6	1.0
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°	2980.5	35.8
0°-40°	4800.7	57.7
0°-60°	7674.8	92.3
0°-90°	8317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8317.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3955	
5°	3926	372
15°	3722	1050
25°	3386	1559
35°	2913	1820
45°	2302	1772
55°	1224	1102
65°	332	355
75°	196	206
85°	76	81
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	3955.2
2.5°	3950.8
5°	3926.4
7.5°	3889.5
10°	3841.5
12.5°	3786.8
15°	3721.8
17.5°	3650.9
20°	3569.7
22.5°	3484.0
25°	3385.8
27.5°	3280.9
30°	3167.1
32.5°	3046.8
35°	2913.1
37.5°	2776.4
40°	2624.3
42.5°	2469.9
45°	2302.2
47.5°	2127.2
50°	1952.9
52.5°	1648.6
55°	1223.9
57.5°	833.9
60°	577.6
62.5°	431.3
65°	332.4
67.5°	265.9
70°	244.5
72.5°	220.8
75°	196.5
77.5°	170.6
80°	141.8
82.5°	110.8
85°	76.1
87.5°	38.4
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	17.98	19.44	18.35	19.75	20.06	17.98	19.44	18.35	19.75	20.06
	3H	18.46	19.75	18.84	20.08	20.44	18.46	19.75	18.84	20.08	20.44
	4H	18.78	19.99	19.19	20.34	20.72	18.78	19.99	19.19	20.34	20.72
	6H	19.13	20.24	19.55	20.61	21.00	19.13	20.24	19.55	20.61	21.00
	8H	19.29	20.34	19.72	20.73	21.13	19.29	20.34	19.72	20.73	21.13
	12H	19.42	20.42	19.85	20.80	21.23	19.42	20.42	19.85	20.80	21.23
4H	2H	18.06	19.27	18.47	19.62	20.00	18.06	19.27	18.47	19.62	20.00
	3H	18.76	19.74	19.17	20.14	20.55	18.76	19.74	19.17	20.14	20.55
	4H	19.23	20.11	19.66	20.53	20.97	19.23	20.11	19.66	20.53	20.97
	6H	19.76	20.52	20.22	20.96	21.43	19.76	20.52	20.22	20.96	21.43
	8H	19.98	20.70	20.45	21.14	21.61	19.98	20.70	20.45	21.14	21.61
	12H	20.18	20.82	20.67	21.30	21.77	20.18	20.82	20.67	21.30	21.77
8H	4H	19.39	20.11	19.86	20.55	21.02	19.39	20.11	19.86	20.55	21.02
	6H	20.06	20.66	20.56	21.15	21.63	20.06	20.66	20.56	21.15	21.63
	8H	20.39	20.92	20.91	21.44	21.93	20.39	20.92	20.91	21.44	21.93
	12H	20.69	21.17	21.20	21.67	22.23	20.69	21.17	21.20	21.67	22.23
12H	4H	19.41	20.05	19.90	20.53	21.00	19.41	20.05	19.90	20.53	21.00
	6H	20.11	20.65	20.63	21.16	21.65	20.11	20.65	20.63	21.16	21.65
	8H	20.50	20.98	21.02	21.48	22.04	20.50	20.98	21.02	21.48	22.04