

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: P866787

Luminaire Tested: PRLX-2001-L-930-83L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866787
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-930-83L-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 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

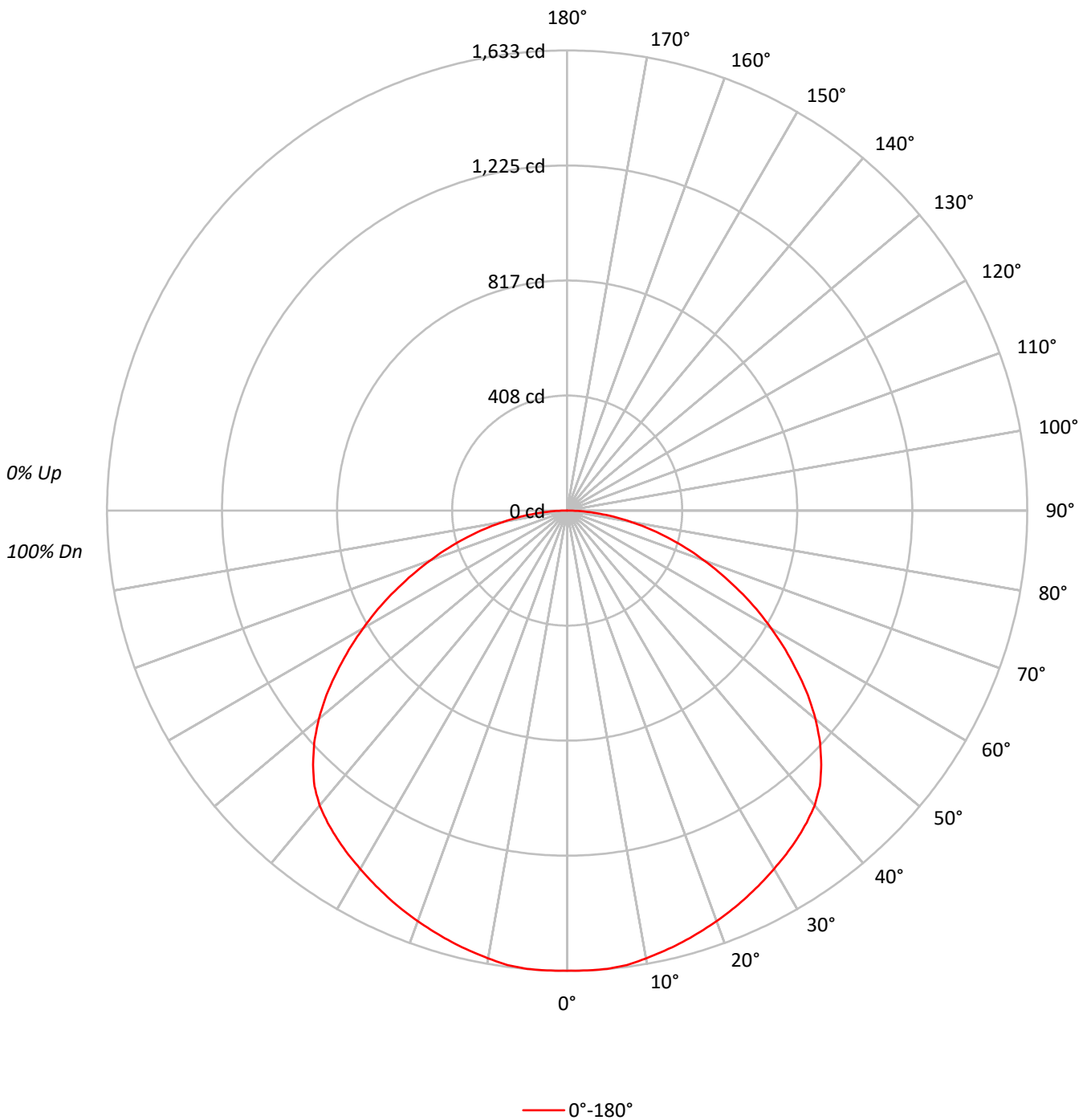
Lumens per Lamp: N/A
Luminaire Lumens: 5241.1 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	8926
5°	8960
10°	8956
15°	8969
20°	9020
25°	9120
30°	9269
35°	9493
40°	9749
45°	9860
50°	9782
55°	9504
60°	9145
65°	8729
70°	8261
75°	7760
80°	7225
85°	6454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9860 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.0
10°-20°	448.0	8.5
20°-30°	698.2	13.3
30°-40°	891.1	17.0
40°-50°	980.9	18.7
50°-60°	891.2	17.0
60°-70°	668.6	12.8
70°-80°	390.8	7.5
80°-90°	117.0	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°	1301.5	24.8
0°-40°	2192.6	41.8
0°-60°	4064.7	77.6
0°-90°	5241.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5241.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1633	
5°	1633	155
15°	1585	448
25°	1512	698
35°	1422	891
45°	1275	981
55°	997	891
65°	675	669
75°	367	391
85°	103	117
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1632.7
2.5°	1633.4
5°	1632.7
7.5°	1627.0
10°	1613.4
12.5°	1599.8
15°	1584.8
17.5°	1567.7
20°	1550.5
22.5°	1531.9
25°	1511.9
27.5°	1490.5
30°	1468.3
32.5°	1446.1
35°	1422.5
37.5°	1396.1
40°	1366.1
42.5°	1327.5
45°	1275.3
47.5°	1217.4
50°	1150.2
52.5°	1077.3
55°	997.2
57.5°	917.9
60°	836.4
62.5°	757.0
65°	674.8
67.5°	594.0
70°	516.8
72.5°	442.5
75°	367.4
77.5°	298.8
80°	229.5
82.5°	164.4
85°	102.9
87.5°	47.9
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	20.08	21.76	20.45	22.07	22.39	20.08	21.76	20.45	22.07	22.39
	3H	21.86	23.38	22.23	23.70	24.06	21.86	23.38	22.23	23.70	24.06
	4H	22.54	23.97	22.94	24.32	24.70	22.54	23.97	22.94	24.32	24.70
	6H	23.07	24.40	23.49	24.77	25.16	23.07	24.40	23.49	24.77	25.16
	8H	23.26	24.53	23.68	24.92	25.31	23.26	24.53	23.68	24.92	25.31
	12H	23.38	24.60	23.81	24.98	25.41	23.38	24.60	23.81	24.98	25.41
4H	2H	20.71	22.14	21.11	22.49	22.86	20.71	22.14	21.11	22.49	22.86
	3H	22.71	23.92	23.12	24.31	24.71	22.71	23.92	23.12	24.31	24.71
	4H	23.53	24.62	23.96	25.04	25.47	23.53	24.62	23.96	25.04	25.47
	6H	24.20	25.16	24.66	25.60	26.05	24.20	25.16	24.66	25.60	26.05
	8H	24.44	25.33	24.90	25.77	26.24	24.44	25.33	24.90	25.77	26.24
	12H	24.62	25.42	25.10	25.90	26.37	24.62	25.42	25.10	25.90	26.37
8H	4H	23.86	24.76	24.32	25.20	25.66	23.86	24.76	24.32	25.20	25.66
	6H	24.66	25.41	25.16	25.90	26.37	24.66	25.41	25.16	25.90	26.37
	8H	24.98	25.65	25.49	26.16	26.64	24.98	25.65	25.49	26.16	26.64
	12H	25.24	25.84	25.75	26.32	26.88	25.24	25.84	25.75	26.32	26.88
12H	4H	23.91	24.71	24.38	25.19	25.65	23.91	24.71	24.38	25.19	25.65
	6H	24.73	25.41	25.24	25.91	26.39	24.73	25.41	25.24	25.91	26.39
	8H	25.11	25.70	25.61	26.19	26.75	25.11	25.70	25.61	26.19	26.75