

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: P866875

Luminaire Tested: PRLX-2001-L-940-133L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866875
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-940-133L-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 8
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

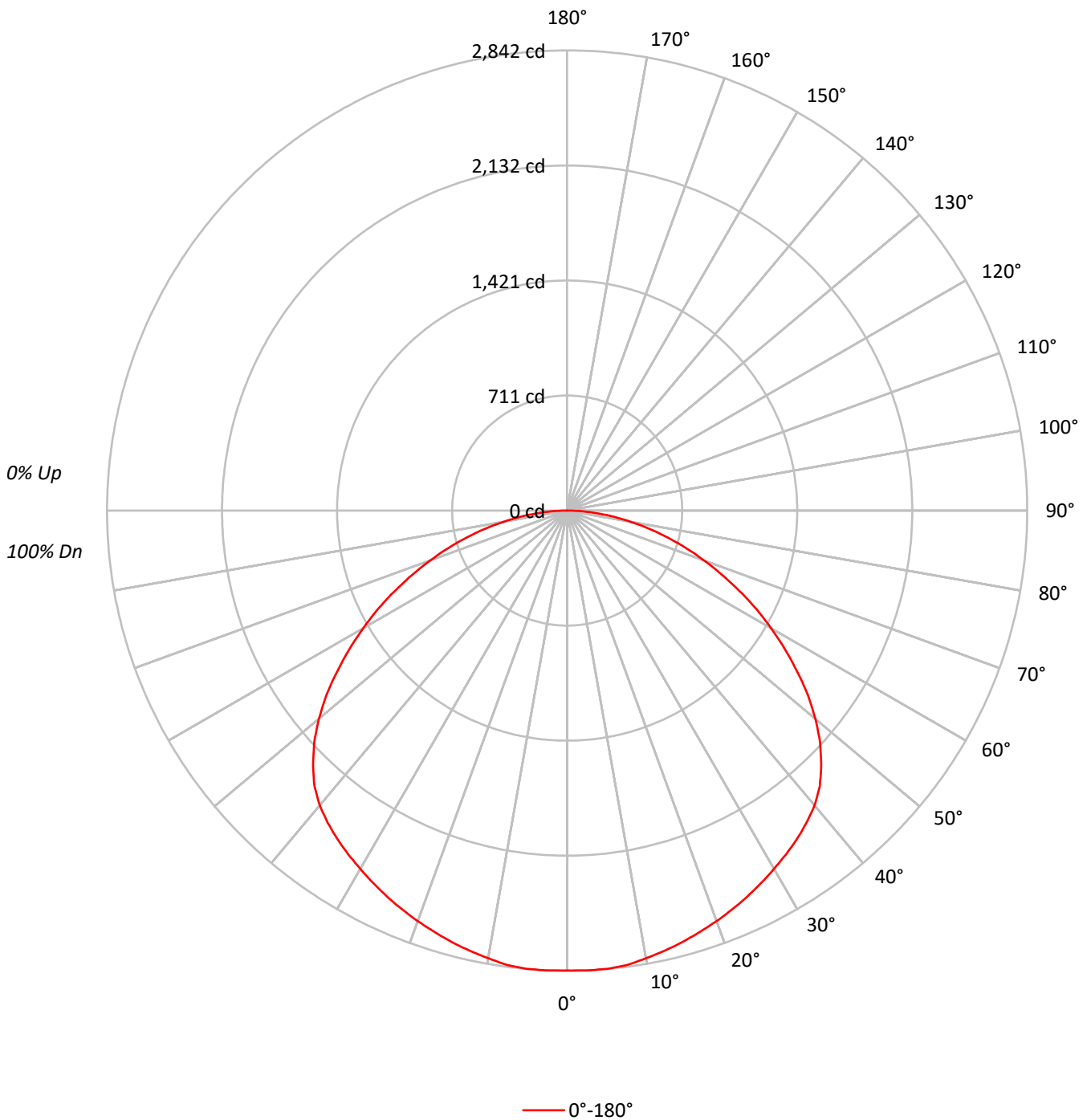
Lumens per Lamp: N/A
Luminaire Lumens: 9120.2 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 111.8
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°	15532
5°	15591
10°	15585
15°	15608
20°	15697
25°	15870
30°	16129
35°	16520
40°	16964
45°	17157
50°	17023
55°	16539
60°	15913
65°	15190
70°	14376
75°	13506
80°	12571
85°	11234

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	3.0
10°-20°	779.5	8.5
20°-30°	1215.0	13.3
30°-40°	1550.6	17.0
40°-50°	1706.9	18.7
50°-60°	1550.9	17.0
60°-70°	1163.5	12.8
70°-80°	680.1	7.5
80°-90°	203.5	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°	2264.7	24.8
0°-40°	3815.3	41.8
0°-60°	7073.1	77.6
0°-90°	9120.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9120.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2841	
5°	2841	270
15°	2758	780
25°	2631	1215
35°	2475	1551
45°	2219	1707
55°	1735	1551
65°	1174	1163
75°	639	680
85°	179	204
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2841.1
2.5°	2842.4
5°	2841.1
7.5°	2831.2
10°	2807.5
12.5°	2783.9
15°	2757.8
17.5°	2727.9
20°	2698.1
22.5°	2665.7
25°	2630.9
27.5°	2593.6
30°	2555.0
32.5°	2516.5
35°	2475.4
37.5°	2429.4
40°	2377.1
42.5°	2310.0
45°	2219.2
47.5°	2118.4
50°	2001.5
52.5°	1874.6
55°	1735.3
57.5°	1597.2
60°	1455.4
62.5°	1317.3
65°	1174.3
67.5°	1033.7
70°	899.4
72.5°	770.0
75°	639.4
77.5°	520.0
80°	399.3
82.5°	286.1
85°	179.1
87.5°	83.3
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	22.01	23.68	22.37	24.00	24.31	22.01	23.68	22.37	24.00	24.31
	3H	23.78	25.30	24.16	25.63	25.99	23.78	25.30	24.16	25.63	25.99
	4H	24.47	25.90	24.86	26.25	26.62	24.47	25.90	24.86	26.25	26.62
	6H	25.00	26.33	25.41	26.69	27.08	25.00	26.33	25.41	26.69	27.08
	8H	25.18	26.45	25.60	26.84	27.24	25.18	26.45	25.60	26.84	27.24
	12H	25.31	26.53	25.74	26.91	27.34	25.31	26.53	25.74	26.91	27.34
4H	2H	22.63	24.07	23.03	24.41	24.79	22.63	24.07	23.03	24.41	24.79
	3H	24.64	25.84	25.05	26.24	26.64	24.64	25.84	25.05	26.24	26.64
	4H	25.46	26.55	25.89	26.96	27.39	25.46	26.55	25.89	26.96	27.39
	6H	26.13	27.08	26.58	27.52	27.98	26.13	27.08	26.58	27.52	27.98
	8H	26.36	27.26	26.82	27.70	28.16	26.36	27.26	26.82	27.70	28.16
	12H	26.54	27.35	27.02	27.82	28.29	26.54	27.35	27.02	27.82	28.29
8H	4H	25.79	26.68	26.25	27.12	27.59	25.79	26.68	26.25	27.12	27.59
	6H	26.59	27.34	27.08	27.82	28.30	26.59	27.34	27.08	27.82	28.30
	8H	26.90	27.58	27.41	28.08	28.57	26.90	27.58	27.41	28.08	28.57
	12H	27.16	27.76	27.67	28.25	28.81	27.16	27.76	27.67	28.25	28.81
12H	4H	25.83	26.64	26.31	27.11	27.58	25.83	26.64	26.31	27.11	27.58
	6H	26.66	27.33	27.16	27.83	28.32	26.66	27.33	27.16	27.83	28.32
	8H	27.03	27.63	27.54	28.12	28.68	27.03	27.63	27.54	28.12	28.68