

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: P867395

Luminaire Tested: PRLX-2004-L-940-15L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-940-15L-G-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

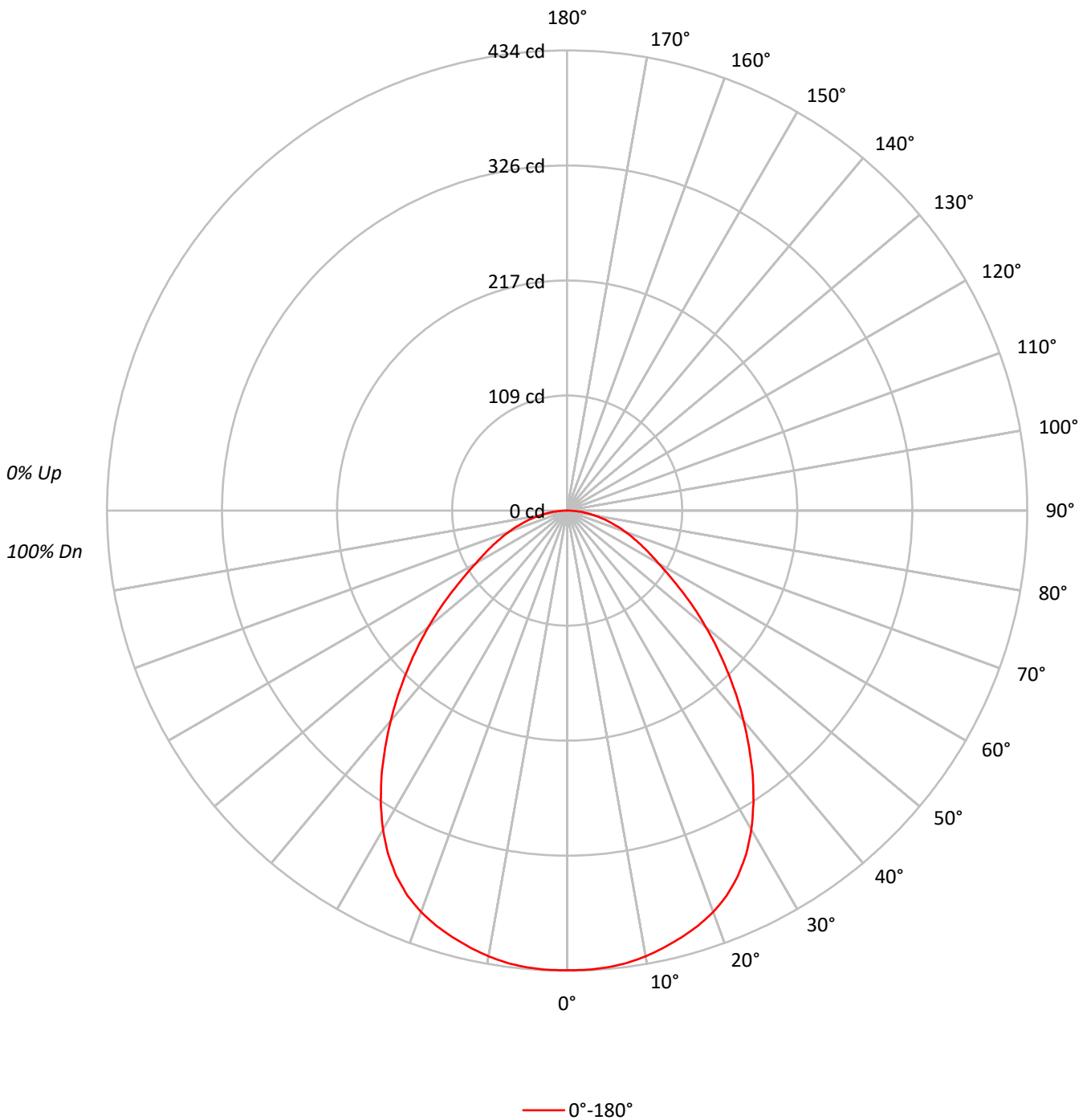
Lumens per Lamp: N/A
Luminaire Lumens: 941.1 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: 0.5 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2139
5°	2143
10°	2139
15°	2128
20°	2115
25°	2072
30°	1979
35°	1838
40°	1667
45°	1489
50°	1309
55°	1130
60°	980
65°	900
70°	840
75°	787
80°	744
85°	702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1489 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	4.4
10°-20°	117.6	12.5
20°-30°	174.5	18.5
30°-40°	190.1	20.2
40°-50°	164.8	17.5
50°-60°	118.5	12.6
60°-70°	76.8	8.2
70°-80°	43.9	4.7
80°-90°	13.8	1.5
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°	333.2	35.4
0°-40°	523.3	55.6
0°-60°	806.5	85.7
0°-90°	941.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	434	
5°	433	41
15°	417	118
25°	381	175
35°	305	190
45°	213	165
55°	131	118
65°	77	77
75°	41	44
85°	12	14
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	433.5
2.5°	433.5
5°	432.6
7.5°	430.4
10°	426.9
12.5°	422.1
15°	416.7
17.5°	410.5
20°	402.9
22.5°	393.2
25°	380.7
27.5°	365.5
30°	347.4
32.5°	327.0
35°	305.1
37.5°	282.0
40°	258.9
42.5°	236.1
45°	213.4
47.5°	191.8
50°	170.5
52.5°	150.8
55°	131.4
57.5°	113.8
60°	99.3
62.5°	87.5
65°	77.1
67.5°	67.2
70°	58.2
72.5°	49.5
75°	41.3
77.5°	33.6
80°	26.2
82.5°	19.1
85°	12.4
87.5°	6.0
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	11.39	12.89	11.76	13.21	13.52	11.39	12.89	11.76	13.21	13.52
	3H	12.91	14.25	13.28	14.58	14.94	12.91	14.25	13.28	14.58	14.94
	4H	13.50	14.77	13.90	15.11	15.49	13.50	14.77	13.90	15.11	15.49
	6H	13.98	15.15	14.39	15.51	15.91	13.98	15.15	14.39	15.51	15.91
	8H	14.15	15.26	14.58	15.65	16.05	14.15	15.26	14.58	15.65	16.05
	12H	14.27	15.34	14.71	15.72	16.15	14.27	15.34	14.71	15.72	16.15
4H	2H	11.90	13.16	12.30	13.51	13.89	11.90	13.16	12.30	13.51	13.89
	3H	13.65	14.69	14.06	15.09	15.50	13.65	14.69	14.06	15.09	15.50
	4H	14.38	15.32	14.81	15.74	16.18	14.38	15.32	14.81	15.74	16.18
	6H	15.00	15.82	15.46	16.26	16.72	15.00	15.82	15.46	16.26	16.72
	8H	15.22	15.99	15.68	16.43	16.90	15.22	15.99	15.68	16.43	16.90
	12H	15.40	16.08	15.88	16.56	17.03	15.40	16.08	15.88	16.56	17.03
8H	4H	14.66	15.43	15.12	15.87	16.34	14.66	15.43	15.12	15.87	16.34
	6H	15.41	16.04	15.90	16.53	17.01	15.41	16.04	15.90	16.53	17.01
	8H	15.71	16.28	16.23	16.79	17.28	15.71	16.28	16.23	16.79	17.28
	12H	15.97	16.48	16.48	16.97	17.54	15.97	16.48	16.48	16.97	17.54
12H	4H	14.68	15.37	15.17	15.85	16.32	14.68	15.37	15.17	15.85	16.32
	6H	15.46	16.03	15.98	16.54	17.03	15.46	16.03	15.98	16.54	17.03
	8H	15.83	16.34	16.34	16.83	17.39	15.83	16.34	16.34	16.83	17.39