

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: P866603

Luminaire Tested: PRLX-2004-M-940-07L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-M-940-07L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 1
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

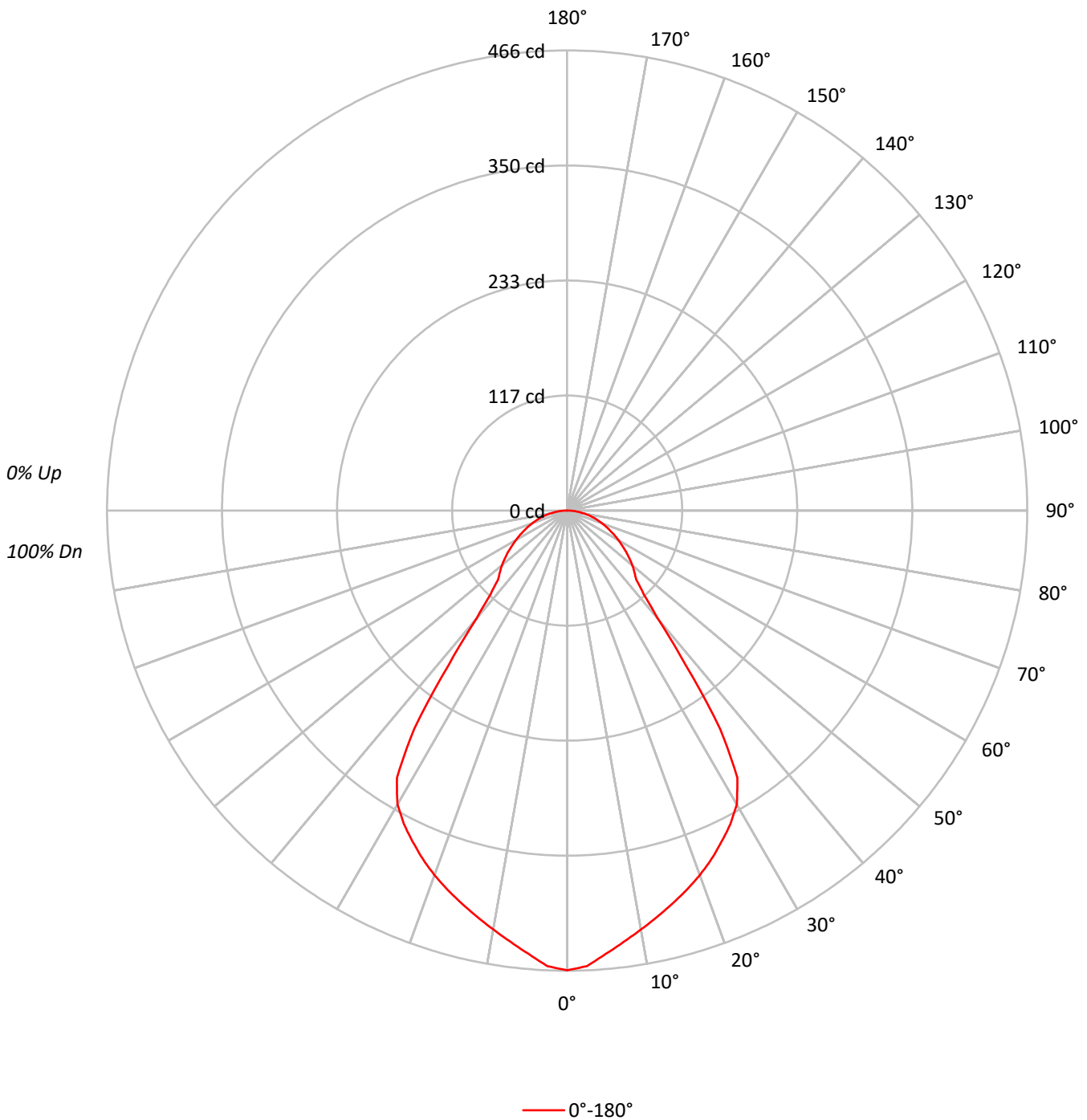
Lumens per Lamp: N/A
Luminaire Lumens: 720.9 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 1.31' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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	111	107	103	100	108	105	101	98	100	98	95		97	94	92		93	91	90	88
2	103	96	90	85	100	94	89	84	91	86	83		87	84	81		85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	72		80	75	71		77	73	70	68
4	89	79	71	66	87	77	71	65	75	69	64		73	68	64		71	66	63	61
5	83	72	64	59	81	71	64	58	69	63	58		67	62	57		65	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52		62	56	52		61	55	51	50
7	73	61	53	48	71	60	53	48	59	52	48		57	52	47		56	51	47	45
8	68	57	49	44	67	56	49	44	55	48	44		54	48	43		52	47	43	42
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49	44	40	38
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46	41	37	35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3703
5°	3598
10°	3479
15°	3393
20°	3326
25°	3248
30°	3156
35°	2623
40°	1476
45°	1110
50°	1067
55°	1010
60°	952
65°	905
70°	872
75°	848
80°	825
85°	812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1110 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	5.9
10°-20°	116.2	16.1
20°-30°	170.4	23.6
30°-40°	159.2	22.1
40°-50°	80.7	11.2
50°-60°	65.2	9.0
60°-70°	47.9	6.6
70°-80°	29.1	4.0
80°-90°	9.7	1.4
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°	329.0	45.6
0°-40°	488.2	67.7
0°-60°	634.1	88.0
0°-90°	720.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	720.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	466	
5°	450	42
15°	412	116
25°	370	170
35°	270	159
45°	99	81
55°	73	65
65°	48	48
75°	28	29
85°	9	10
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	465.5
2.5°	461.7
5°	450.5
7.5°	440.4
10°	430.7
12.5°	421.3
15°	412.0
17.5°	402.7
20°	392.8
22.5°	382.0
25°	370.0
27.5°	357.9
30°	343.5
32.5°	320.8
35°	270.1
37.5°	196.9
40°	142.1
42.5°	114.6
45°	98.7
47.5°	92.3
50°	86.2
52.5°	79.5
55°	72.8
57.5°	66.3
60°	59.8
62.5°	54.1
65°	48.1
67.5°	42.8
70°	37.5
72.5°	32.4
75°	27.6
77.5°	22.7
80°	18.0
82.5°	13.4
85°	8.9
87.5°	4.5
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	10.43	11.78	10.80	12.09	12.41	10.43	11.78	10.80	12.09	12.41
	3H	12.17	13.38	12.55	13.71	14.08	12.17	13.38	12.55	13.71	14.08
	4H	12.88	14.01	13.28	14.36	14.75	12.88	14.01	13.28	14.36	14.75
	6H	13.45	14.50	13.87	14.87	15.26	13.45	14.50	13.87	14.87	15.26
	8H	13.67	14.66	14.09	15.05	15.45	13.67	14.66	14.09	15.05	15.45
	12H	13.82	14.77	14.25	15.15	15.58	13.82	14.77	14.25	15.15	15.58
4H	2H	10.99	12.12	11.39	12.47	12.85	10.99	12.12	11.39	12.47	12.85
	3H	12.96	13.90	13.37	14.31	14.71	12.96	13.90	13.37	14.31	14.71
	4H	13.81	14.66	14.24	15.08	15.52	13.81	14.66	14.24	15.08	15.52
	6H	14.53	15.26	14.99	15.71	16.17	14.53	15.26	14.99	15.71	16.17
	8H	14.80	15.48	15.26	15.93	16.40	14.80	15.48	15.26	15.93	16.40
	12H	15.01	15.62	15.50	16.10	16.58	15.01	15.62	15.50	16.10	16.58
8H	4H	14.12	14.81	14.59	15.25	15.72	14.12	14.81	14.59	15.25	15.72
	6H	14.99	15.55	15.49	16.05	16.53	14.99	15.55	15.49	16.05	16.53
	8H	15.35	15.85	15.87	16.37	16.86	15.35	15.85	15.87	16.37	16.86
	12H	15.67	16.11	16.18	16.60	17.17	15.67	16.11	16.18	16.60	17.17
12H	4H	14.15	14.76	14.63	15.24	15.71	14.15	14.76	14.63	15.24	15.71
	6H	15.05	15.56	15.57	16.07	16.56	15.05	15.56	15.57	16.07	16.56
	8H	15.49	15.93	16.00	16.42	16.99	15.49	15.93	16.00	16.42	16.99