

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: P865931

Luminaire Tested: PRLX-2001-M-927-45L-L-U-S-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-927-45L-L-U-S-X-X-WHHR-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

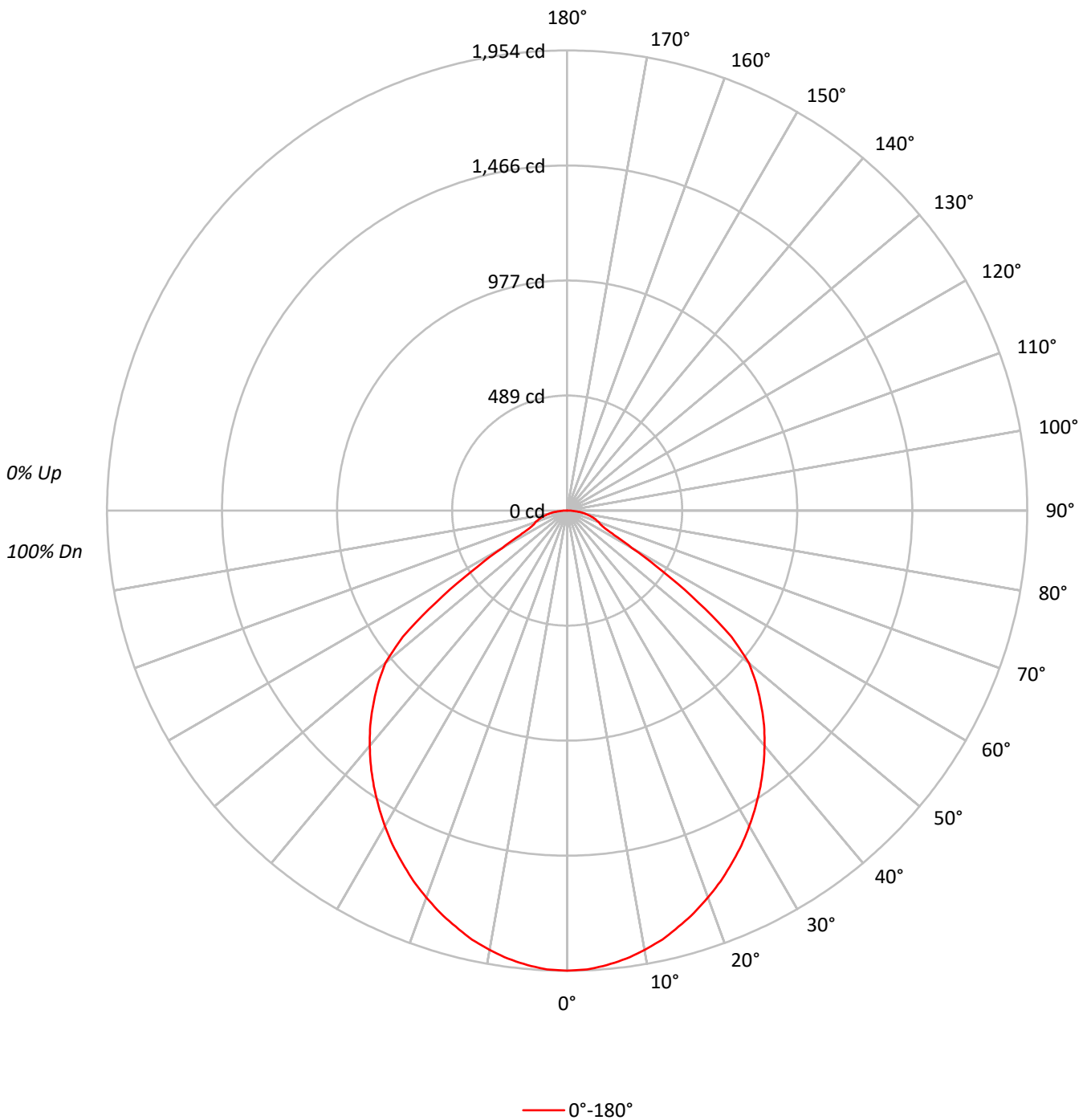
Lumens per Lamp: N/A
Luminaire Lumens: 4207.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.31
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 38.8
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	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51
6	75	63	55	49	73	62	54	48	60	53	48	58	52	48	57	52	47	45
7	70	57	49	43	68	56	49	43	55	48	43	54	47	43	52	47	42	41
8	65	52	44	39	64	52	44	39	50	44	39	49	43	38	48	42	38	37
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16578
5°	16505
10°	16322
15°	16069
20°	15786
25°	15480
30°	15160
35°	14820
40°	14444
45°	13976
50°	13294
55°	10068
60°	5407
65°	3486
70°	3513
75°	3705
80°	3851
85°	3895

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13976 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.6	4.4
10°-20°	515.7	12.3
20°-30°	761.9	18.1
30°-40°	894.6	21.3
40°-50°	896.8	21.3
50°-60°	600.6	14.3
60°-70°	192.9	4.6
70°-80°	118.0	2.8
80°-90°	43.7	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°	1461.2	34.7
0°-40°	2355.8	56.0
0°-60°	3853.2	91.6
0°-90°	4207.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4207.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1954	
5°	1938	184
15°	1829	516
25°	1653	762
35°	1431	895
45°	1165	897
55°	680	601
65°	174	193
75°	113	118
85°	40	44
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1953.6
2.5°	1950.2
5°	1937.6
7.5°	1919.3
10°	1894.2
12.5°	1865.7
15°	1829.1
17.5°	1791.5
20°	1748.1
22.5°	1703.5
25°	1653.3
27.5°	1603.1
30°	1547.1
32.5°	1490.0
35°	1430.6
37.5°	1369.0
40°	1303.9
42.5°	1237.7
45°	1164.6
47.5°	1090.4
50°	1007.0
52.5°	879.2
55°	680.5
57.5°	483.0
60°	318.6
62.5°	224.9
65°	173.6
67.5°	153.0
70°	141.6
72.5°	127.9
75°	113.0
77.5°	95.9
80°	78.8
82.5°	60.5
85°	40.0
87.5°	20.6
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	18.04	19.51	18.40	19.82	20.14	18.04	19.51	18.40	19.82	20.14
	3H	18.52	19.83	18.90	20.16	20.52	18.52	19.83	18.90	20.16	20.52
	4H	18.84	20.06	19.24	20.41	20.79	18.84	20.06	19.24	20.41	20.79
	6H	19.17	20.29	19.58	20.66	21.05	19.17	20.29	19.58	20.66	21.05
	8H	19.30	20.37	19.73	20.76	21.17	19.30	20.37	19.73	20.76	21.17
	12H	19.41	20.43	19.84	20.82	21.25	19.41	20.43	19.84	20.82	21.25
4H	2H	18.07	19.30	18.47	19.64	20.02	18.07	19.30	18.47	19.64	20.02
	3H	18.78	19.78	19.19	20.18	20.59	18.78	19.78	19.19	20.18	20.59
	4H	19.25	20.15	19.69	20.57	21.01	19.25	20.15	19.69	20.57	21.01
	6H	19.75	20.53	20.21	20.98	21.44	19.75	20.53	20.21	20.98	21.44
	8H	19.96	20.69	20.43	21.14	21.60	19.96	20.69	20.43	21.14	21.60
	12H	20.13	20.79	20.62	21.27	21.74	20.13	20.79	20.62	21.27	21.74
8H	4H	19.42	20.15	19.88	20.59	21.06	19.42	20.15	19.88	20.59	21.06
	6H	20.05	20.66	20.55	21.15	21.63	20.05	20.66	20.55	21.15	21.63
	8H	20.35	20.90	20.86	21.41	21.90	20.35	20.90	20.86	21.41	21.90
	12H	20.61	21.10	21.12	21.60	22.16	20.61	21.10	21.12	21.60	22.16
12H	4H	19.43	20.08	19.92	20.56	21.03	19.43	20.08	19.92	20.56	21.03
	6H	20.09	20.64	20.61	21.15	21.64	20.09	20.64	20.61	21.15	21.64
	8H	20.45	20.94	20.96	21.44	22.00	20.45	20.94	20.96	21.44	22.00