

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: P866042

Luminaire Tested: PRLX-2001-M-935-25L-L-U-S-X-X-GREY-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-M-935-25L-L-U-S-X-X-GREY-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, MEDIUM LIGHT ENGINE, FLAT LENS,
TAPERED DRUM WITH GRAY INTERIOR SHADE.
LIGHT LEVEL 3
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

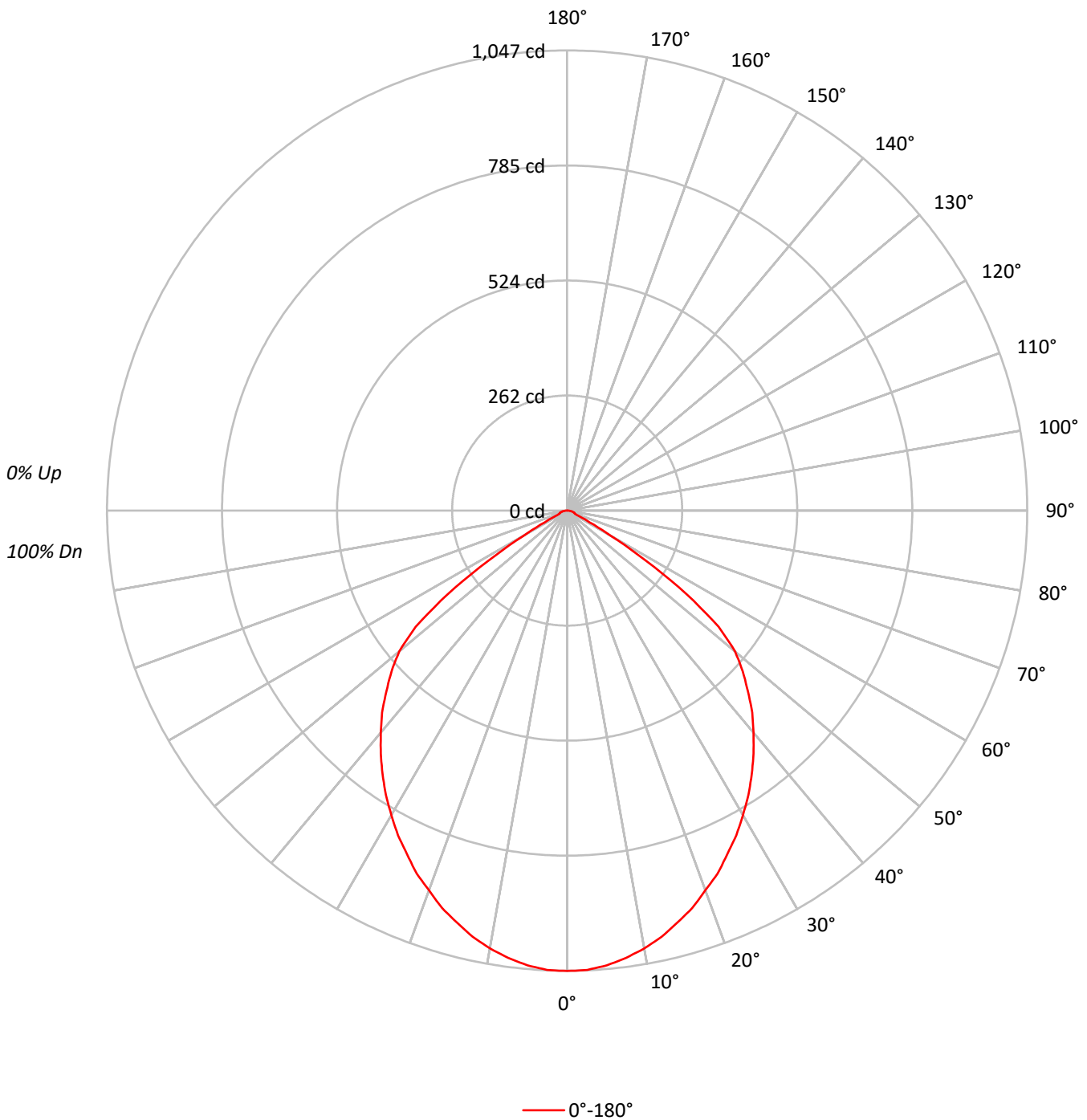
Lumens per Lamp: N/A
Luminaire Lumens: 2023.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.27
Luminous Opening: Circular (Dia: 1.27' x H: 0')
CIE Type: Direct

Input Watts (W): 21.7
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: 0.5 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	112	108	105	102	109	106	103	100	102	99	97		98	96	94		94	93	91	90
2	104	97	92	87	101	95	91	86	92	88	85		89	86	83		86	83	81	79
3	96	88	81	76	94	86	80	75	83	78	74		81	76	73		78	75	71	70
4	89	79	72	66	87	78	71	66	76	70	65		73	68	64		71	67	63	61
5	83	72	64	58	81	71	63	58	69	62	57		67	61	57		65	60	56	55
6	77	65	57	52	75	64	57	52	63	56	51		61	55	51		60	54	50	49
7	72	60	52	46	70	59	52	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	65	54	47	42	53	46	42		52	46	41		51	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	38		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	39	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	8888
5°	8847
10°	8716
15°	8523
20°	8301
25°	8073
30°	7837
35°	7583
40°	7305
45°	6977
50°	6582
55°	4928
60°	1945
65°	532
70°	454
75°	489
80°	533
85°	526

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6977 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	4.9
10°-20°	273.4	13.5
20°-30°	397.5	19.6
30°-40°	457.7	22.6
40°-50°	448.6	22.2
50°-60°	285.0	14.1
60°-70°	41.5	2.1
70°-80°	15.7	0.8
80°-90°	5.9	0.3
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°	769.1	38.0
0°-40°	1226.8	60.6
0°-60°	1960.4	96.9
0°-90°	2023.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1047	
5°	1039	98
15°	970	273
25°	862	397
35°	732	458
45°	581	449
55°	333	285
65°	26	42
75°	15	16
85°	5	6
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1047.4
2.5°	1046.1
5°	1038.6
7.5°	1026.4
10°	1011.5
12.5°	993.2
15°	970.1
17.5°	947.7
20°	919.2
22.5°	894.1
25°	862.2
27.5°	833.1
30°	799.8
32.5°	767.3
35°	732.0
37.5°	696.7
40°	659.4
42.5°	623.4
45°	581.4
47.5°	542.0
50°	498.6
52.5°	434.2
55°	333.1
57.5°	212.3
60°	114.6
62.5°	57.7
65°	26.5
67.5°	19.0
70°	18.3
72.5°	17.0
75°	14.9
77.5°	12.9
80°	10.9
82.5°	8.1
85°	5.4
87.5°	2.7
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	14.90	16.30	15.26	16.61	16.93	14.90	16.30	15.26	16.61	16.93
	3H	14.83	16.06	15.21	16.39	16.75	14.83	16.06	15.21	16.39	16.75
	4H	14.80	15.95	15.20	16.30	16.68	14.80	15.95	15.20	16.30	16.68
	6H	14.78	15.83	15.20	16.20	16.60	14.78	15.83	15.20	16.20	16.60
	8H	14.77	15.76	15.19	16.15	16.56	14.77	15.76	15.19	16.15	16.56
	12H	14.75	15.70	15.18	16.08	16.51	14.75	15.70	15.18	16.08	16.51
4H	2H	14.74	15.88	15.14	16.23	16.62	14.74	15.88	15.14	16.23	16.62
	3H	14.70	15.62	15.11	16.03	16.43	14.70	15.62	15.11	16.03	16.43
	4H	14.69	15.51	15.12	15.93	16.37	14.69	15.51	15.12	15.93	16.37
	6H	14.70	15.41	15.16	15.85	16.32	14.70	15.41	15.16	15.85	16.32
	8H	14.69	15.35	15.16	15.80	16.27	14.69	15.35	15.16	15.80	16.27
	12H	14.68	15.27	15.17	15.75	16.22	14.68	15.27	15.17	15.75	16.22
8H	4H	14.59	15.26	15.06	15.70	16.17	14.59	15.26	15.06	15.70	16.17
	6H	14.62	15.16	15.12	15.66	16.14	14.62	15.16	15.12	15.66	16.14
	8H	14.62	15.12	15.14	15.63	16.12	14.62	15.12	15.14	15.63	16.12
	12H	14.63	15.08	15.14	15.57	16.14	14.63	15.08	15.14	15.57	16.14
12H	4H	14.56	15.15	15.04	15.63	16.10	14.56	15.15	15.04	15.63	16.10
	6H	14.57	15.07	15.09	15.58	16.07	14.57	15.07	15.09	15.58	16.07
	8H	14.60	15.04	15.11	15.54	16.11	14.60	15.04	15.11	15.54	16.11