

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: P866771

Luminaire Tested: PRLX-2001-L-930-48L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866771
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: Pentalux
Catalog Number: PRLX-2001-L-930-48L-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 3
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

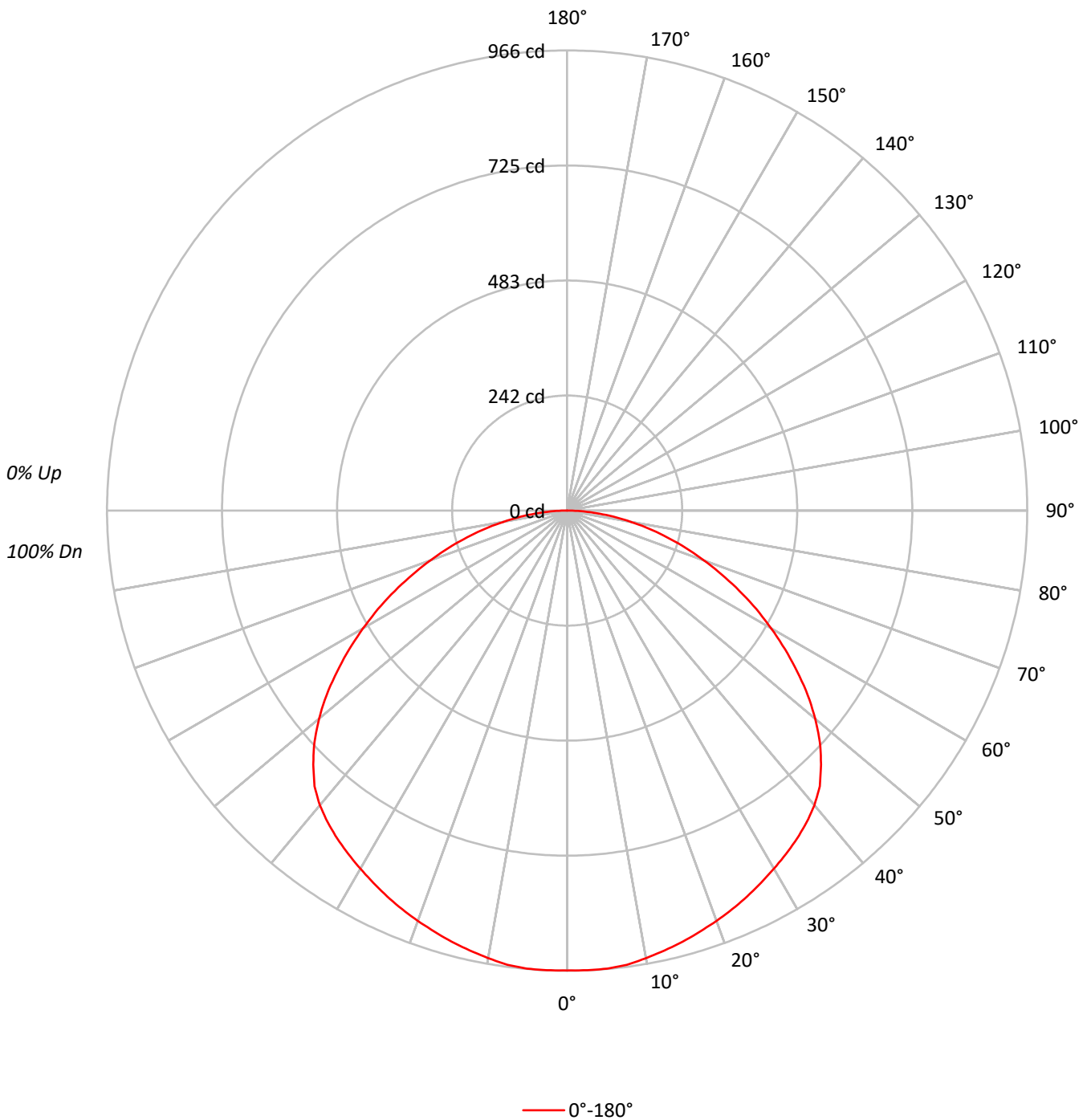
Lumens per Lamp: N/A
Luminaire Lumens: 3098.6 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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°	5277
5°	5297
10°	5295
15°	5303
20°	5333
25°	5391
30°	5480
35°	5613
40°	5763
45°	5829
50°	5783
55°	5620
60°	5407
65°	5161
70°	4885
75°	4588
80°	4272
85°	3820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5829 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	3.0
10°-20°	264.8	8.5
20°-30°	412.8	13.3
30°-40°	526.8	17.0
40°-50°	579.9	18.7
50°-60°	526.9	17.0
60°-70°	395.3	12.8
70°-80°	231.1	7.5
80°-90°	69.2	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°	769.4	24.8
0°-40°	1296.3	41.8
0°-60°	2403.1	77.6
0°-90°	3098.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3098.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	965	
5°	965	92
15°	937	265
25°	894	413
35°	841	527
45°	754	580
55°	590	527
65°	399	395
75°	217	231
85°	61	69
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	965.3
2.5°	965.7
5°	965.3
7.5°	961.9
10°	953.8
12.5°	945.8
15°	936.9
17.5°	926.8
20°	916.7
22.5°	905.7
25°	893.8
27.5°	881.2
30°	868.1
32.5°	855.0
35°	841.0
37.5°	825.4
40°	807.6
42.5°	784.8
45°	753.9
47.5°	719.7
50°	680.0
52.5°	636.9
55°	589.6
57.5°	542.6
60°	494.5
62.5°	447.6
65°	399.0
67.5°	351.2
70°	305.6
72.5°	261.6
75°	217.2
77.5°	176.7
80°	135.7
82.5°	97.2
85°	60.9
87.5°	28.3
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	18.26	19.93	18.62	20.25	20.56	18.26	19.93	18.62	20.25	20.56
	3H	20.03	21.55	20.41	21.87	22.23	20.03	21.55	20.41	21.87	22.23
	4H	20.71	22.15	21.11	22.49	22.87	20.71	22.15	21.11	22.49	22.87
	6H	21.25	22.58	21.66	22.94	23.33	21.25	22.58	21.66	22.94	23.33
	8H	21.43	22.70	21.85	23.09	23.49	21.43	22.70	21.85	23.09	23.49
	12H	21.56	22.78	21.99	23.16	23.59	21.56	22.78	21.99	23.16	23.59
4H	2H	18.88	20.32	19.28	20.66	21.04	18.88	20.32	19.28	20.66	21.04
	3H	20.89	22.09	21.30	22.49	22.89	20.89	22.09	21.30	22.49	22.89
	4H	21.71	22.80	22.14	23.21	23.64	21.71	22.80	22.14	23.21	23.64
	6H	22.38	23.33	22.83	23.77	24.23	22.38	23.33	22.83	23.77	24.23
	8H	22.61	23.51	23.07	23.95	24.41	22.61	23.51	23.07	23.95	24.41
	12H	22.79	23.60	23.27	24.07	24.54	22.79	23.60	23.27	24.07	24.54
8H	4H	22.04	22.93	22.50	23.37	23.84	22.04	22.93	22.50	23.37	23.84
	6H	22.84	23.59	23.33	24.07	24.55	22.84	23.59	23.33	24.07	24.55
	8H	23.15	23.83	23.66	24.33	24.81	23.15	23.83	23.66	24.33	24.81
	12H	23.41	24.01	23.92	24.50	25.06	23.41	24.01	23.92	24.50	25.06
12H	4H	22.08	22.89	22.56	23.36	23.83	22.08	22.89	22.56	23.36	23.83
	6H	22.91	23.58	23.41	24.08	24.57	22.91	23.58	23.41	24.08	24.57
	8H	23.28	23.88	23.79	24.37	24.93	23.28	23.88	23.79	24.37	24.93