

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: P865484

Luminaire Tested: PRLX-2001-S-930-25L-G-U-S-X-X-BLAK-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2001-S-930-25L-G-U-S-X-X-BLAK-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS,
TAPERED DRUM WITH BLACK INTERIOR SHADE.
LIGHT LEVEL 5
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

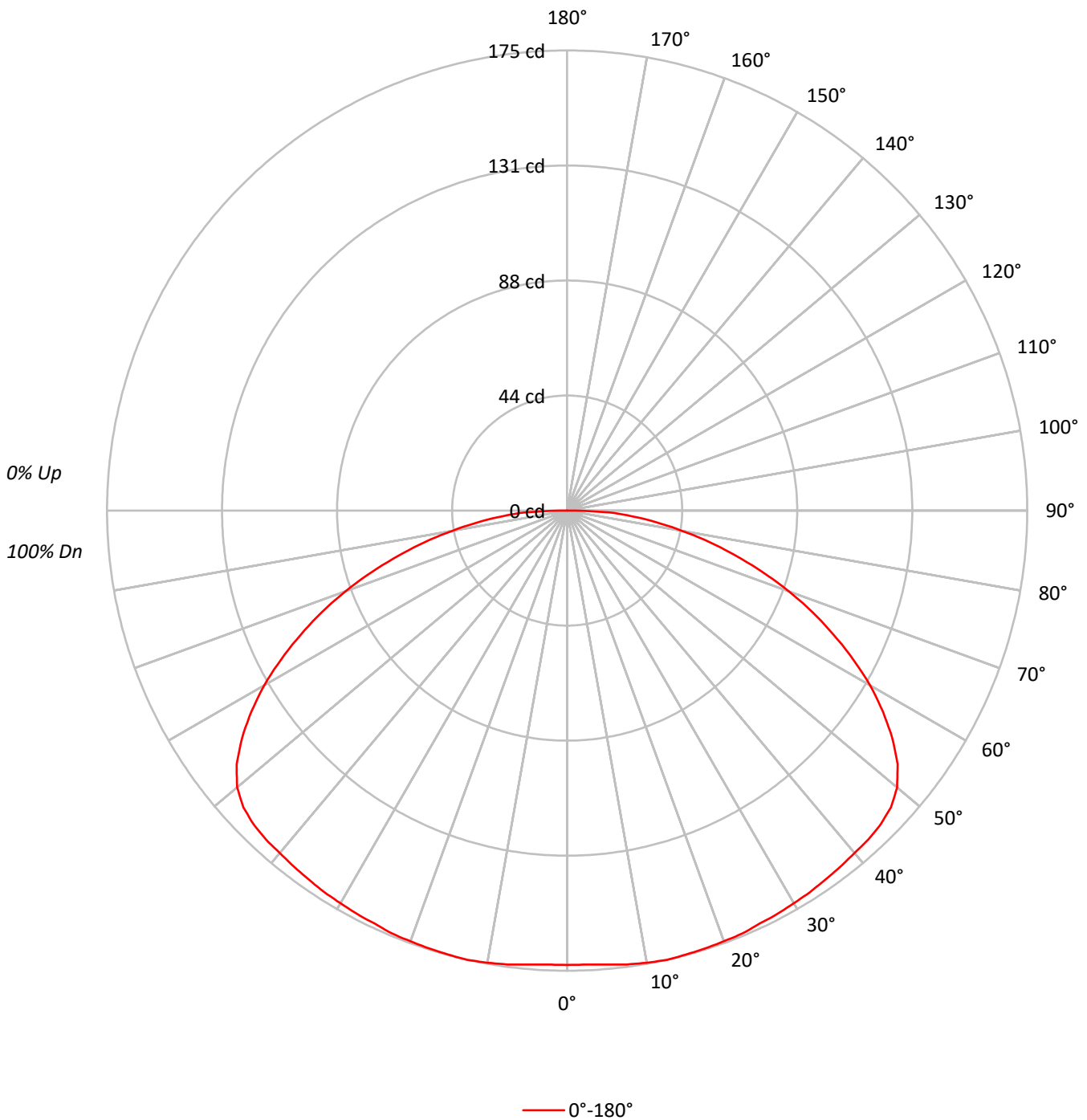
Lumens per Lamp: N/A
Luminaire Lumens: 725.9 lumens
Efficiency: N/A
Efficacy: 24.9 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 1.52 / 1.69
Luminous Opening: Circular (Dia: 0.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.1
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	107	102	97	92	104	99	95	91	95	91	88		91	88	85		87	85	82	80
2	96	87	79	73	93	85	78	72	81	75	70		78	73	68		75	71	67	64
3	87	75	66	59	84	73	65	58	70	63	57		67	61	56		65	60	55	53
4	79	66	56	49	76	64	55	48	62	54	47		59	52	47		57	51	46	44
5	72	58	48	41	70	57	48	41	55	46	40		53	45	40		51	44	39	37
6	66	52	42	35	64	51	42	35	49	41	35		47	40	34		45	39	34	32
7	61	46	37	30	59	46	37	30	44	36	30		43	35	30		41	35	30	27
8	57	42	33	27	55	41	33	27	40	32	27		39	32	26		37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24		35	28	23		34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21		33	26	21		32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2818
5°	2837
10°	2892
15°	2952
20°	3025
25°	3119
30°	3247
35°	3411
40°	3620
45°	3891
50°	4156
55°	4294
60°	4342
65°	4319
70°	4278
75°	4191
80°	4161
85°	4604

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 5983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	2.3
10°-20°	49.5	6.8
20°-30°	80.3	11.1
30°-40°	107.6	14.8
40°-50°	130.1	17.9
50°-60°	134.4	18.5
60°-70°	110.7	15.2
70°-80°	70.4	9.7
80°-90°	26.4	3.6
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°	146.4	20.2
0°-40°	253.9	35.0
0°-60°	518.4	71.4
0°-90°	725.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	173	
5°	173	17
15°	175	50
25°	173	80
35°	171	108
45°	169	130
55°	151	134
65°	112	111
75°	66	70
85°	25	26
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	172.8
2.5°	172.8
5°	173.3
7.5°	174.1
10°	174.6
12.5°	175.0
15°	174.8
17.5°	174.6
20°	174.3
22.5°	174.1
25°	173.3
27.5°	173.0
30°	172.4
32.5°	172.0
35°	171.3
37.5°	170.7
40°	170.0
42.5°	169.6
45°	168.7
47.5°	167.0
50°	163.8
52.5°	158.4
55°	151.0
57.5°	142.4
60°	133.1
62.5°	122.7
65°	111.9
67.5°	101.1
70°	89.7
72.5°	78.0
75°	66.5
77.5°	55.5
80°	44.3
82.5°	34.3
85°	24.6
87.5°	16.0
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	17.69	19.46	18.06	19.78	20.09	17.69	19.46	18.06	19.78	20.09
	3H	19.77	21.39	20.15	21.71	22.07	19.77	21.39	20.15	21.71	22.07
	4H	20.60	22.13	21.00	22.48	22.85	20.60	22.13	21.00	22.48	22.85
	6H	21.30	22.72	21.71	23.08	23.47	21.30	22.72	21.71	23.08	23.47
	8H	21.57	22.93	21.99	23.32	23.72	21.57	22.93	21.99	23.32	23.72
	12H	21.81	23.12	22.24	23.50	23.93	21.81	23.12	22.24	23.50	23.93
4H	2H	18.42	19.95	18.81	20.29	20.66	18.42	19.95	18.81	20.29	20.66
	3H	20.73	22.02	21.13	22.42	22.82	20.73	22.02	21.13	22.42	22.82
	4H	21.70	22.88	22.13	23.29	23.73	21.70	22.88	22.13	23.29	23.73
	6H	22.54	23.59	22.99	24.02	24.47	22.54	23.59	22.99	24.02	24.47
	8H	22.89	23.87	23.34	24.30	24.77	22.89	23.87	23.34	24.30	24.77
	12H	23.20	24.08	23.67	24.56	25.02	23.20	24.08	23.67	24.56	25.02
8H	4H	22.11	23.09	22.57	23.53	23.99	22.11	23.09	22.57	23.53	23.99
	6H	23.11	23.93	23.60	24.42	24.89	23.11	23.93	23.60	24.42	24.89
	8H	23.56	24.30	24.06	24.80	25.28	23.56	24.30	24.06	24.80	25.28
	12H	23.99	24.65	24.49	25.14	25.69	23.99	24.65	24.49	25.14	25.69
12H	4H	22.18	23.06	22.65	23.53	24.00	22.18	23.06	22.65	23.53	24.00
	6H	23.22	23.96	23.72	24.46	24.94	23.22	23.96	23.72	24.46	24.94
	8H	23.74	24.40	24.25	24.89	25.44	23.74	24.40	24.25	24.89	25.44