

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: P866763

Luminaire Tested: PRLX-2001-L-930-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P866763
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: Prenalux
Catalog Number: PRLX-2001-L-930-32L-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 2
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

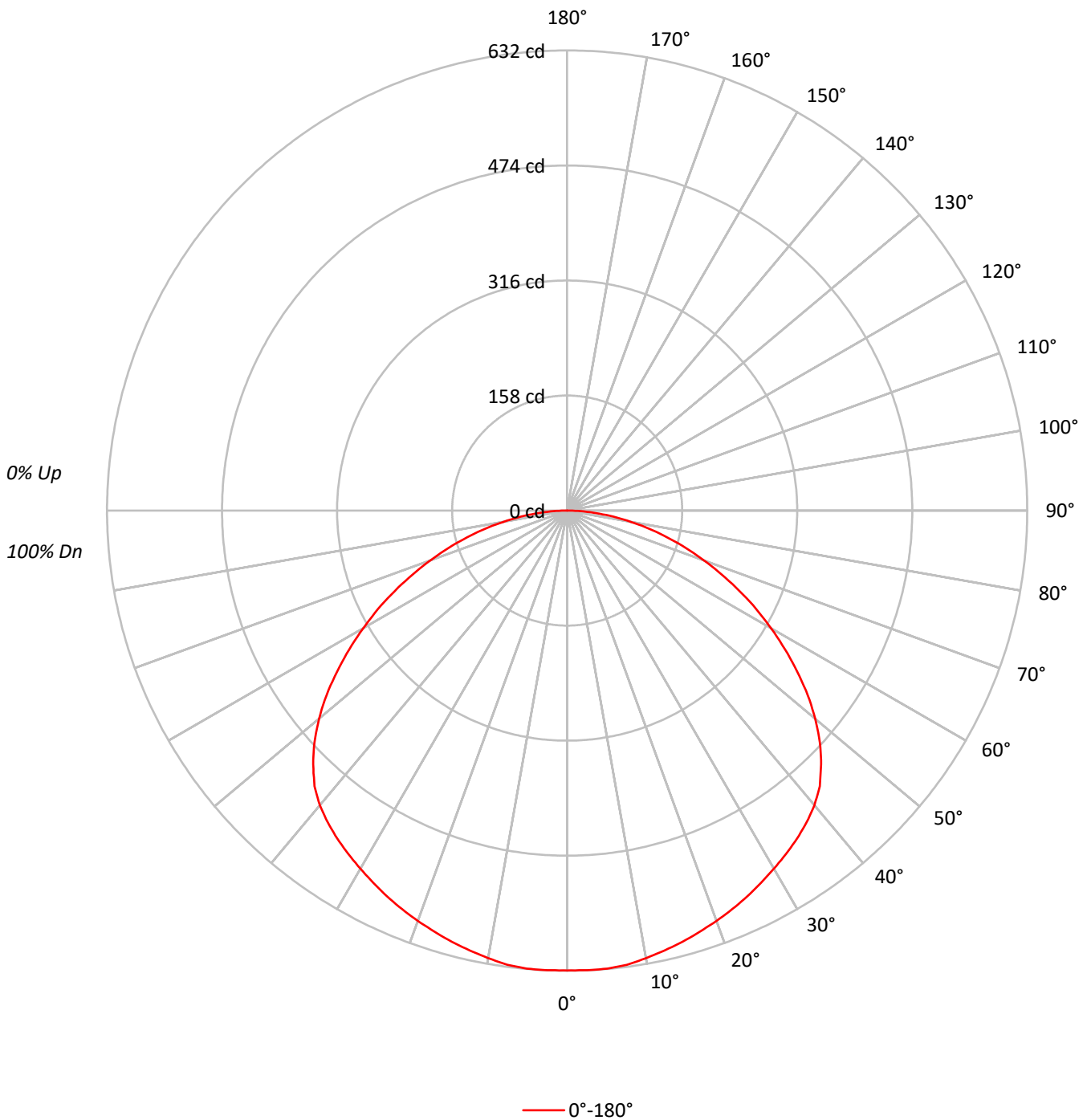
Lumens per Lamp: N/A
Luminaire Lumens: 2027.3 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.35 / 1.48
Luminous Opening: Circular (Dia: 1.58' x H: 0')
CIE Type: Direct

Input Watts (W): 26.1
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: 0.333 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°	3452
5°	3466
10°	3464
15°	3469
20°	3489
25°	3528
30°	3585
35°	3672
40°	3771
45°	3814
50°	3784
55°	3676
60°	3537
65°	3376
70°	3195
75°	3001
80°	2796
85°	2496

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3814 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.0
10°-20°	173.3	8.5
20°-30°	270.1	13.3
30°-40°	344.7	17.0
40°-50°	379.4	18.7
50°-60°	344.7	17.0
60°-70°	258.6	12.8
70°-80°	151.2	7.5
80°-90°	45.2	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°	503.4	24.8
0°-40°	848.1	41.8
0°-60°	1572.2	77.6
0°-90°	2027.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	632	
5°	632	60
15°	613	173
25°	585	270
35°	550	345
45°	493	379
55°	386	345
65°	261	259
75°	142	151
85°	40	45
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	631.5
2.5°	631.8
5°	631.5
7.5°	629.3
10°	624.1
12.5°	618.8
15°	613.0
17.5°	606.4
20°	599.7
22.5°	592.5
25°	584.8
27.5°	576.5
30°	567.9
32.5°	559.4
35°	550.2
37.5°	540.0
40°	528.4
42.5°	513.5
45°	493.3
47.5°	470.9
50°	444.9
52.5°	416.7
55°	385.7
57.5°	355.0
60°	323.5
62.5°	292.8
65°	261.0
67.5°	229.8
70°	199.9
72.5°	171.2
75°	142.1
77.5°	115.6
80°	88.8
82.5°	63.6
85°	39.8
87.5°	18.5
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	16.78	18.46	17.15	18.77	19.09	16.78	18.46	17.15	18.77	19.09
	3H	18.56	20.07	18.93	20.40	20.76	18.56	20.07	18.93	20.40	20.76
	4H	19.24	20.67	19.64	21.02	21.39	19.24	20.67	19.64	21.02	21.39
	6H	19.78	21.10	20.19	21.47	21.86	19.78	21.10	20.19	21.47	21.86
	8H	19.96	21.23	20.38	21.62	22.01	19.96	21.23	20.38	21.62	22.01
	12H	20.08	21.30	20.51	21.69	22.11	20.08	21.30	20.51	21.69	22.11
4H	2H	17.41	18.84	17.81	19.19	19.56	17.41	18.84	17.81	19.19	19.56
	3H	19.41	20.62	19.82	21.01	21.41	19.41	20.62	19.82	21.01	21.41
	4H	20.23	21.32	20.66	21.74	22.17	20.23	21.32	20.66	21.74	22.17
	6H	20.90	21.86	21.36	22.30	22.75	20.90	21.86	21.36	22.30	22.75
	8H	21.14	22.03	21.60	22.48	22.94	21.14	22.03	21.60	22.48	22.94
	12H	21.32	22.12	21.80	22.60	23.07	21.32	22.12	21.80	22.60	23.07
8H	4H	20.56	21.46	21.02	21.90	22.36	20.56	21.46	21.02	21.90	22.36
	6H	21.36	22.11	21.86	22.60	23.07	21.36	22.11	21.86	22.60	23.07
	8H	21.68	22.35	22.19	22.86	23.34	21.68	22.35	22.19	22.86	23.34
	12H	21.94	22.54	22.45	23.03	23.58	21.94	22.54	22.45	23.03	23.58
12H	4H	20.61	21.41	21.08	21.89	22.35	20.61	21.41	21.08	21.89	22.35
	6H	21.43	22.11	21.94	22.61	23.09	21.43	22.11	21.94	22.61	23.09
	8H	21.81	22.41	22.32	22.89	23.45	21.81	22.41	22.32	22.89	23.45