

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: P865637

Luminaire Tested: PRLX-2002-S-930-20L-G-U-S-X-X-BRSS-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P865637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2002-S-930-20L-G-U-S-X-X-BRSS-X
Description: PRENTALUX 3D PRINTED PENDANT LED LUMINAIRE, SMALL LIGHT ENGINE, GLOBE LENS, TRUNCATED DOME WITH BRASS INTERIOR SHADE.
LIGHT LEVEL 4
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

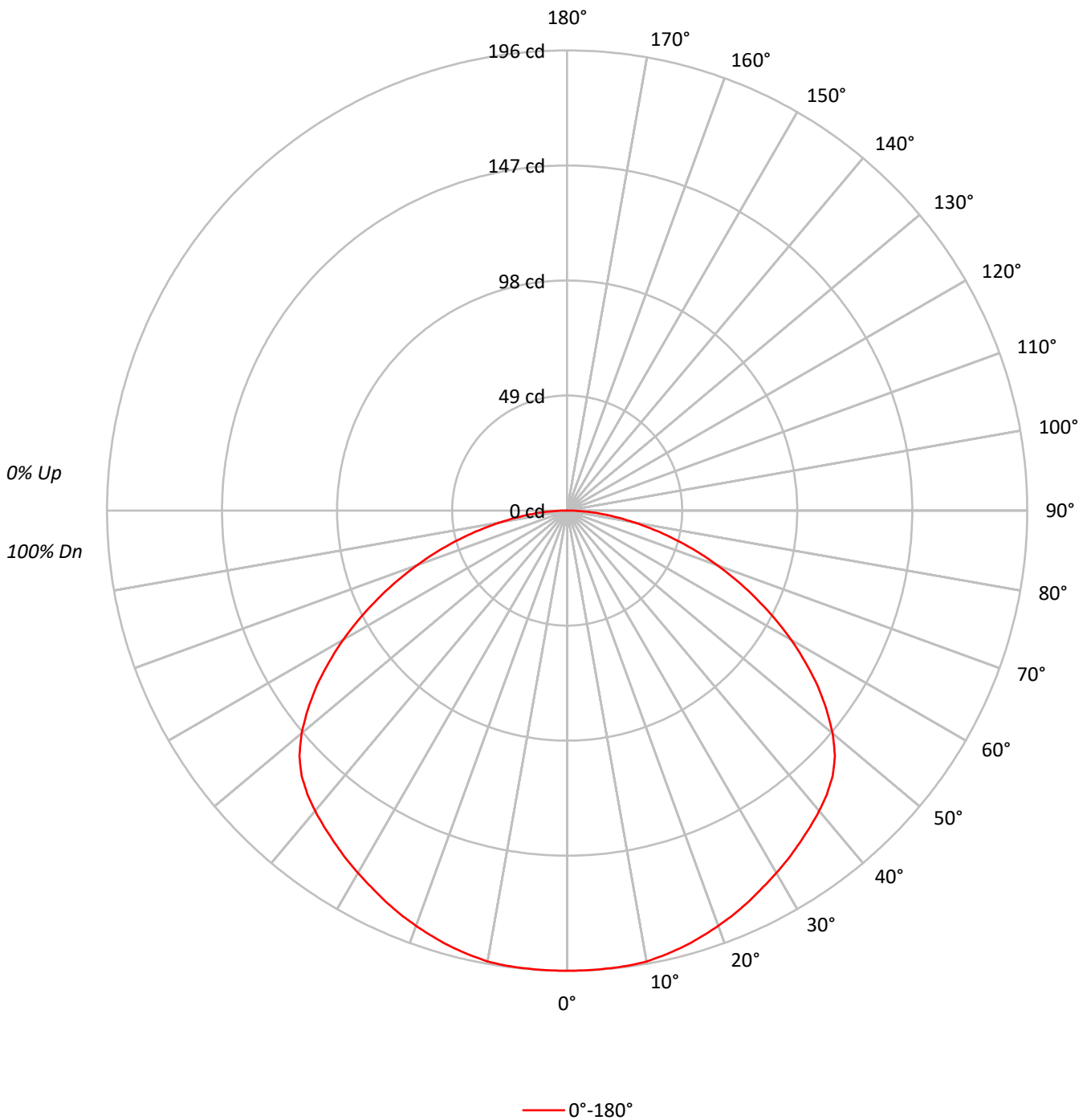
Lumens per Lamp: N/A
Luminaire Lumens: 658.8 lumens
Efficiency: N/A
Efficacy: 30.2 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.36 / 1.52
Luminous Opening: Circular (Dia: 0.85' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	72		77	74	70	68
3	89	78	69	63	86	76	68	62	73	66	61		70	65	60		68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51		62	56	51		60	54	50	48
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3682
5°	3692
10°	3719
15°	3738
20°	3762
25°	3803
30°	3865
35°	3960
40°	4095
45°	4248
50°	4313
55°	4267
60°	4144
65°	3956
70°	3729
75°	3462
80°	3126
85°	2802

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 50°
 Luminance: 4313 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	2.8
10°-20°	54.3	8.2
20°-30°	84.7	12.9
30°-40°	108.4	16.4
40°-50°	122.9	18.7
50°-60°	116.1	17.6
60°-70°	88.2	13.4
70°-80°	50.7	7.7
80°-90°	14.9	2.3
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°	157.7	23.9
0°-40°	266.1	40.4
0°-60°	505.0	76.7
0°-90°	658.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	658.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	196	
5°	196	19
15°	192	54
25°	184	85
35°	173	108
45°	160	123
55°	130	116
65°	89	88
75°	48	51
85°	13	15
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	196.0
2.5°	196.0
5°	195.8
7.5°	195.6
10°	195.0
12.5°	193.7
15°	192.2
17.5°	190.3
20°	188.2
22.5°	186.0
25°	183.5
27.5°	180.8
30°	178.2
32.5°	175.6
35°	172.7
37.5°	169.9
40°	167.0
42.5°	163.8
45°	159.9
47.5°	154.7
50°	147.6
52.5°	139.3
55°	130.3
57.5°	120.3
60°	110.3
62.5°	99.7
65°	89.0
67.5°	78.6
70°	67.9
72.5°	57.9
75°	47.7
77.5°	38.2
80°	28.9
82.5°	20.6
85°	13.0
87.5°	6.7
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	17.44	19.13	17.80	19.44	19.76	17.44	19.13	17.80	19.44	19.76
	3H	19.23	20.77	19.61	21.09	21.45	19.23	20.77	19.61	21.09	21.45
	4H	19.90	21.35	20.30	21.70	22.07	19.90	21.35	20.30	21.70	22.07
	6H	20.40	21.75	20.81	22.11	22.50	20.40	21.75	20.81	22.11	22.50
	8H	20.57	21.86	20.99	22.25	22.64	20.57	21.86	20.99	22.25	22.64
	12H	20.69	21.92	21.12	22.31	22.73	20.69	21.92	21.12	22.31	22.73
4H	2H	18.07	19.52	18.47	19.87	20.24	18.07	19.52	18.47	19.87	20.24
	3H	20.09	21.31	20.50	21.71	22.10	20.09	21.31	20.50	21.71	22.10
	4H	20.89	22.00	21.32	22.41	22.84	20.89	22.00	21.32	22.41	22.84
	6H	21.52	22.49	21.98	22.93	23.39	21.52	22.49	21.98	22.93	23.39
	8H	21.74	22.65	22.20	23.09	23.55	21.74	22.65	22.20	23.09	23.55
	12H	21.91	22.73	22.39	23.20	23.67	21.91	22.73	22.39	23.20	23.67
8H	4H	21.21	22.12	21.67	22.56	23.03	21.21	22.12	21.67	22.56	23.03
	6H	21.97	22.73	22.46	23.21	23.69	21.97	22.73	22.46	23.21	23.69
	8H	22.26	22.94	22.77	23.45	23.93	22.26	22.94	22.77	23.45	23.93
	12H	22.51	23.11	23.02	23.60	24.16	22.51	23.11	23.02	23.60	24.16
12H	4H	21.25	22.07	21.73	22.55	23.01	21.25	22.07	21.73	22.55	23.01
	6H	22.03	22.71	22.54	23.22	23.70	22.03	22.71	22.54	23.22	23.70
	8H	22.39	22.99	22.89	23.48	24.04	22.39	22.99	22.89	23.48	24.04