

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: P867403

Luminaire Tested: PRLX-2004-L-940-32L-G-X-X-WHHR-X

Issue Date: 8/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P867403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2304-993-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 8/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: Prenalux
Catalog Number: PRLX-2004-L-940-32L-G-X-X-WHHR-X
Description: PRENATALUX 3D PRINTED PENDANT LED LUMINAIRE, LARGE LIGHT ENGINE, GLOBE LENS,
BELL WITH WHITE INTERIOR SHADE.
LIGHT LEVEL 2
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

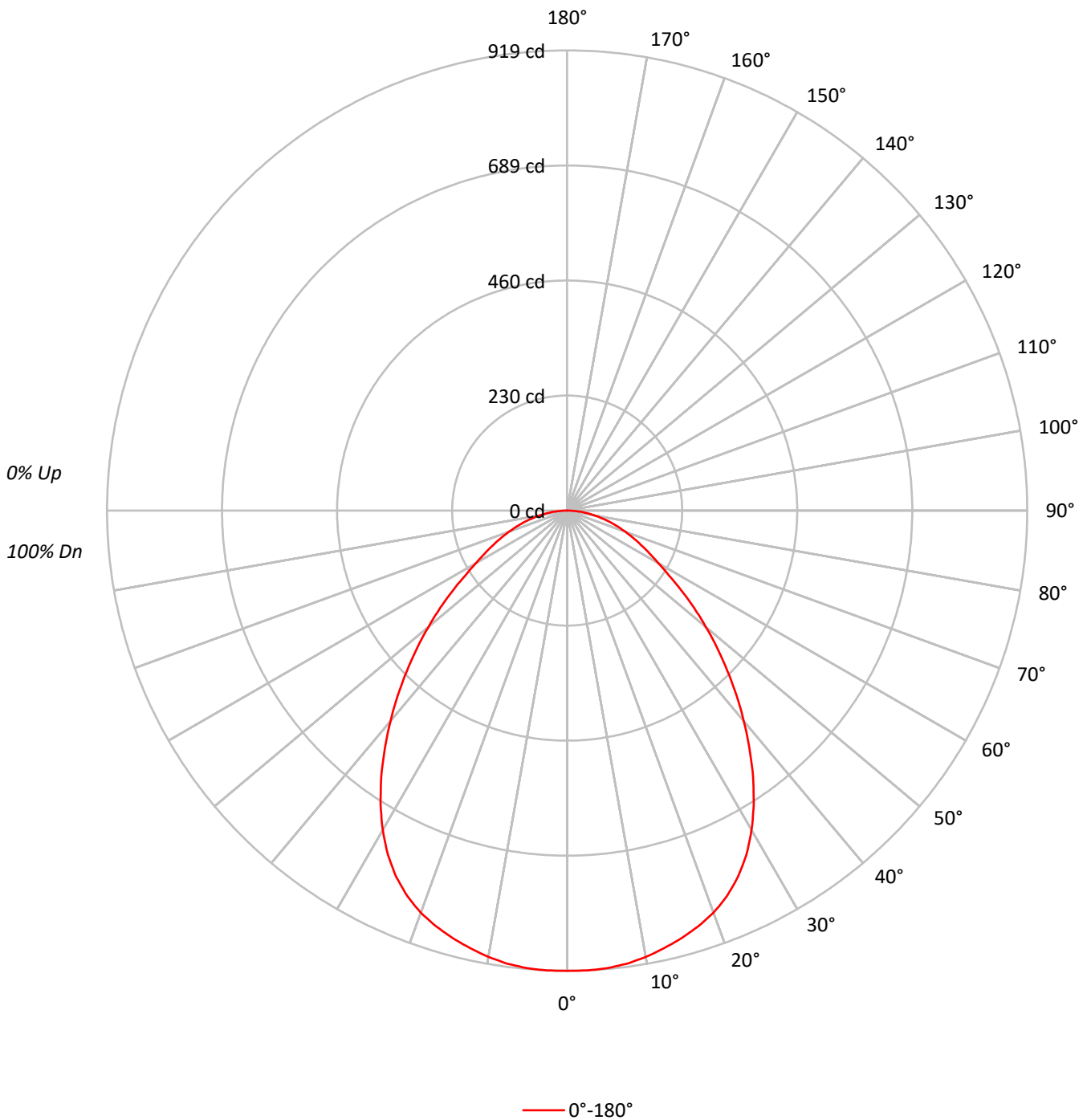
Lumens per Lamp: N/A
Luminaire Lumens: 1995.7 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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: 0.5 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	49	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	56	44	36	32	43	36	32	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4535
5°	4544
10°	4535
15°	4514
20°	4487
25°	4395
30°	4197
35°	3896
40°	3537
45°	3157
50°	2775
55°	2396
60°	2078
65°	1908
70°	1782
75°	1672
80°	1577
85°	1483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	4.4
10°-20°	249.4	12.5
20°-30°	370.1	18.5
30°-40°	403.1	20.2
40°-50°	349.5	17.5
50°-60°	251.2	12.6
60°-70°	162.9	8.2
70°-80°	93.2	4.7
80°-90°	29.2	1.5
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°	706.7	35.4
0°-40°	1109.7	55.6
0°-60°	1710.4	85.7
0°-90°	1995.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1995.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	919	
5°	917	87
15°	884	249
25°	807	370
35°	647	403
45°	452	349
55°	279	251
65°	163	163
75°	88	93
85°	26	29
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	919.2
2.5°	919.2
5°	917.4
7.5°	912.7
10°	905.2
12.5°	895.1
15°	883.7
17.5°	870.6
20°	854.5
22.5°	833.9
25°	807.4
27.5°	775.2
30°	736.7
32.5°	693.4
35°	646.9
37.5°	598.0
40°	549.1
42.5°	500.8
45°	452.5
47.5°	406.8
50°	361.5
52.5°	319.7
55°	278.6
57.5°	241.3
60°	210.6
62.5°	185.5
65°	163.4
67.5°	142.6
70°	123.5
72.5°	105.0
75°	87.7
77.5°	71.3
80°	55.5
82.5°	40.6
85°	26.2
87.5°	12.8
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	14.01	15.50	14.37	15.82	16.13	14.01	15.50	14.37	15.82	16.13
	3H	15.52	16.86	15.90	17.19	17.55	15.52	16.86	15.90	17.19	17.55
	4H	16.12	17.38	16.52	17.73	18.11	16.12	17.38	16.52	17.73	18.11
	6H	16.60	17.76	17.01	18.13	18.52	16.60	17.76	17.01	18.13	18.52
	8H	16.77	17.87	17.19	18.26	18.67	16.77	17.87	17.19	18.26	18.67
	12H	16.89	17.95	17.32	18.33	18.76	16.89	17.95	17.32	18.33	18.76
4H	2H	14.51	15.77	14.91	16.12	16.50	14.51	15.77	14.91	16.12	16.50
	3H	16.26	17.31	16.67	17.71	18.11	16.26	17.31	16.67	17.71	18.11
	4H	17.00	17.94	17.43	18.35	18.79	17.00	17.94	17.43	18.35	18.79
	6H	17.61	18.43	18.07	18.88	19.34	17.61	18.43	18.07	18.88	19.34
	8H	17.83	18.60	18.30	19.05	19.51	17.83	18.60	18.30	19.05	19.51
	12H	18.01	18.70	18.49	19.17	19.65	18.01	18.70	18.49	19.17	19.65
8H	4H	17.27	18.04	17.74	18.48	18.95	17.27	18.04	17.74	18.48	18.95
	6H	18.02	18.66	18.52	19.15	19.63	18.02	18.66	18.52	19.15	19.63
	8H	18.33	18.90	18.84	19.41	19.90	18.33	18.90	18.84	19.41	19.90
	12H	18.59	19.09	19.10	19.59	20.15	18.59	19.09	19.10	19.59	20.15
12H	4H	17.30	17.99	17.78	18.46	18.94	17.30	17.99	17.78	18.46	18.94
	6H	18.08	18.65	18.59	19.16	19.65	18.08	18.65	18.59	19.16	19.65
	8H	18.44	18.95	18.95	19.44	20.01	18.44	18.95	18.95	19.44	20.01