

Signify Classified - Internal
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: PORTFOLIO

Report Number: P746037

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D30D010-EU4DR3020359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2767.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 29
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

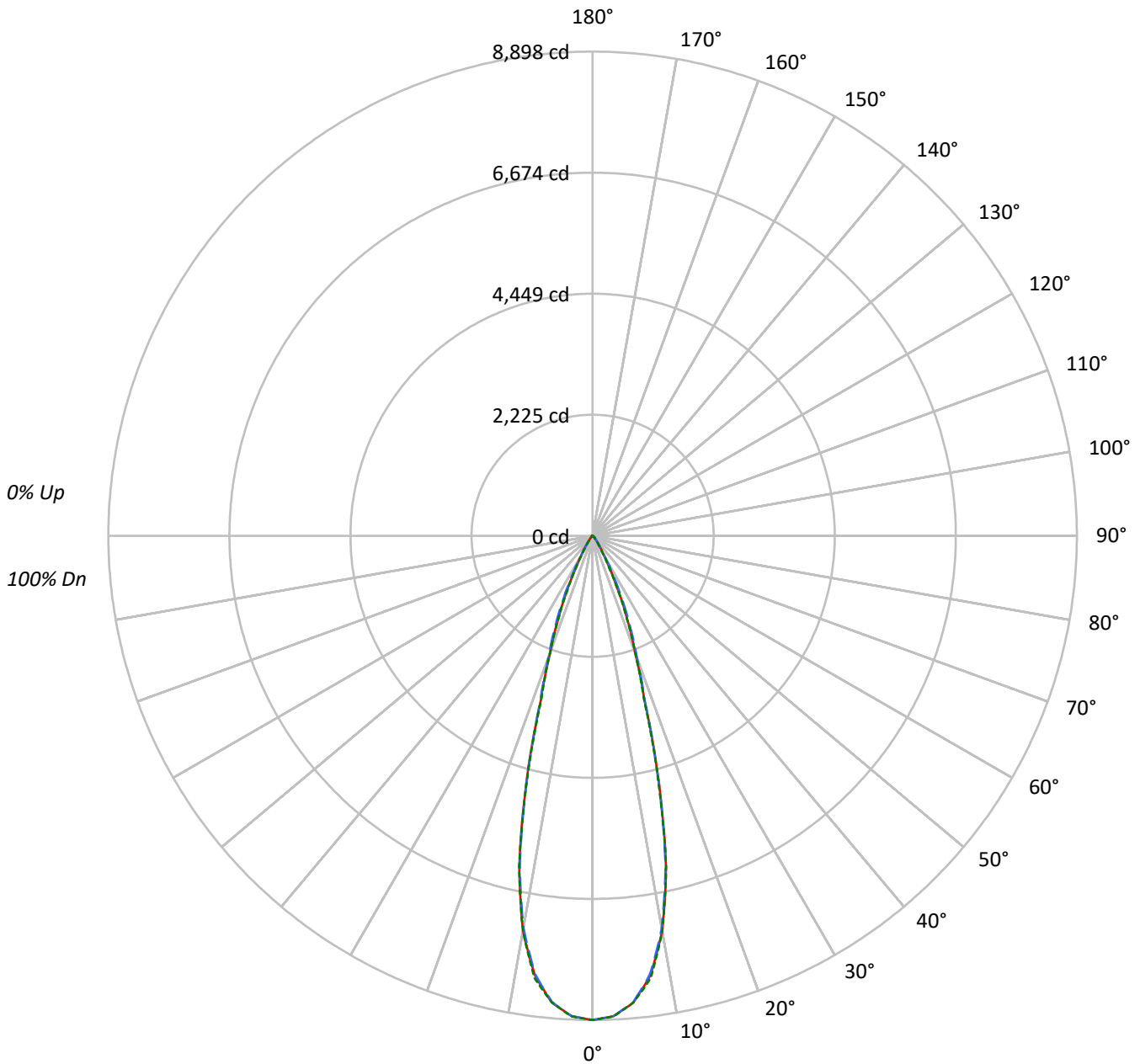


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	681068	681068	681068
5°	661510	660742	661541
10°	572967	568926	572835
15°	373839	371827	369956
20°	185890	192863	185638
25°	93637	105587	91720
30°	37493	40851	32667
35°	17390	16651	13960
40°	7504	8333	7074
45°	5293	6571	5347
50°	1822	4787	1929
55°	1041	1975	1108
60°	735	873	735
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	782.4	28.3
10°-20°	1260.1	45.5
20°-30°	544.5	19.7
30°-40°	124.1	4.5
40°-50°	42.6	1.5
50°-60°	10.4	0.4
60°-70°	2.7	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
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°	2587.0	93.5
0°-40°	2711.1	98.0
0°-60°	2764.1	99.9
0°-90°	2767.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2767.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8898	8898	8898	8898	8898	
5°	8609	8601	8599	8617	8610	783
15°	4718	4661	4692	4677	4669	1263
25°	1109	1151	1250	1121	1086	531
35°	186	190	178	177	149	126
45°	49	61	61	61	49	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8897.8	8897.8	8897.8	8897.8	8897.8
2.5°	8838.8	8832.7	8836.2	8840.5	8842.3
5°	8609.4	8601.1	8599.4	8617.3	8609.8
7.5°	8146.8	8135.0	8117.1	8157.7	8195.7
10°	7371.8	7358.8	7319.8	7339.0	7370.1
12.5°	6227.7	6185.3	6184.5	6245.6	6237.3
15°	4717.6	4660.7	4692.2	4676.9	4668.6
17.5°	3172.4	3150.5	3192.5	3179.8	3125.2
20°	2282.1	2287.8	2367.7	2327.6	2279.0
22.5°	1665.3	1685.8	1780.6	1677.1	1639.0
25°	1108.7	1150.7	1250.2	1121.4	1086.0
27.5°	681.9	701.1	802.1	673.2	654.0
30°	424.2	414.6	462.2	396.7	369.6
32.5°	278.3	266.0	281.3	252.5	230.7
35°	186.1	190.0	178.2	176.9	149.4
37.5°	116.2	133.7	118.0	125.8	96.1
40°	75.1	97.0	83.4	92.2	70.8
42.5°	61.6	74.7	68.6	72.9	62.9
45°	48.9	60.7	60.7	60.7	49.4
47.5°	27.1	40.6	52.0	41.5	28.8
50°	15.3	20.5	40.2	21.4	16.2
52.5°	10.5	11.8	27.5	12.2	10.9
55°	7.8	8.3	14.8	8.7	8.3
57.5°	6.1	6.5	7.8	6.5	6.1
60°	4.8	4.8	5.7	5.2	4.8
62.5°	3.5	3.5	4.0	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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