

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: P744122

Luminaire Tested: LD4D20D010-EU4DR3020359030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744122
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: LD4D20D010-EU4DR3020359030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1449.7 lumens
Efficiency: N/A
Efficacy: 62.8 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): 23.1
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

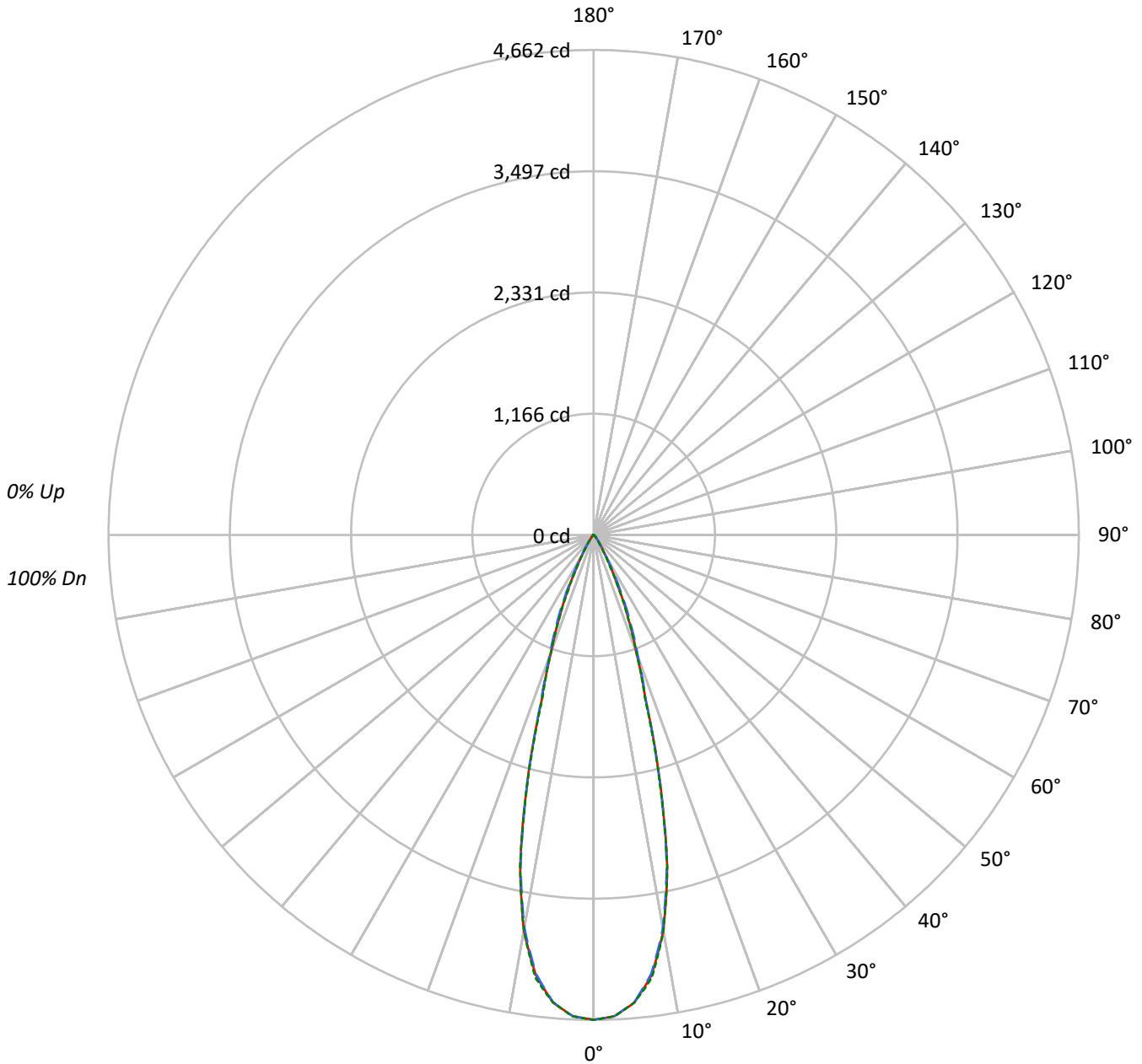


Downlight



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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	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°	356807	356807	356807
5°	346568	346161	346583
10°	300179	298065	300109
15°	195850	194797	193822
20°	97389	101038	97258
25°	49061	55319	48047
30°	19639	21398	17111
35°	9111	8728	7317
40°	3937	4367	3707
45°	2771	3442	2793
50°	953	2501	1012
55°	547	1041	587
60°	383	459	383
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3442 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.9	28.3
10°-20°	660.2	45.5
20°-30°	285.3	19.7
30°-40°	65.0	4.5
40°-50°	22.3	1.5
50°-60°	5.5	0.4
60°-70°	1.4	0.1
70°-80°	0.1	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°	1355.4	93.5
0°-40°	1420.4	98.0
0°-60°	1448.1	99.9
0°-90°	1449.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4662	4662	4662	4662	4662	
5°	4510	4506	4505	4515	4511	410
15°	2472	2442	2458	2450	2446	662
25°	581	603	655	588	569	278
35°	98	100	93	93	78	66
45°	26	32	32	32	26	18
55°	4	4	8	5	4	4
65°	1	1	1	1	1	1
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°	4661.5	4661.5	4661.5	4661.5	4661.5
2.5°	4630.6	4627.4	4629.3	4631.6	4632.5
5°	4510.5	4506.1	4505.2	4514.6	4510.7
7.5°	4268.1	4262.0	4252.6	4273.9	4293.8
10°	3862.1	3855.3	3834.9	3845.0	3861.2
12.5°	3262.7	3240.5	3240.0	3272.1	3267.8
15°	2471.5	2441.7	2458.2	2450.2	2445.9
17.5°	1662.0	1650.6	1672.6	1665.9	1637.3
20°	1195.6	1198.6	1240.4	1219.4	1194.0
22.5°	872.4	883.2	932.9	878.6	858.7
25°	580.9	602.9	655.0	587.5	568.9
27.5°	357.2	367.3	420.2	352.7	342.6
30°	222.2	217.2	242.1	207.8	193.6
32.5°	145.8	139.4	147.4	132.3	120.8
35°	97.5	99.6	93.4	92.7	78.3
37.5°	60.9	70.0	61.8	65.9	50.4
40°	39.4	50.8	43.7	48.3	37.1
42.5°	32.3	39.1	35.9	38.2	32.9
45°	25.6	31.8	31.8	31.8	25.8
47.5°	14.2	21.3	27.2	21.7	15.1
50°	8.0	10.8	21.0	11.2	8.5
52.5°	5.5	6.2	14.4	6.4	5.7
55°	4.1	4.4	7.8	4.6	4.4
57.5°	3.2	3.4	4.1	3.4	3.2
60°	2.5	2.5	3.0	2.8	2.5
62.5°	1.8	1.8	2.1	1.8	1.8
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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(END OF REPORT)