

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: P745985

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745985
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-EU4DR3020359027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2499.8 lumens
Efficiency: N/A
Efficacy: 86.2 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

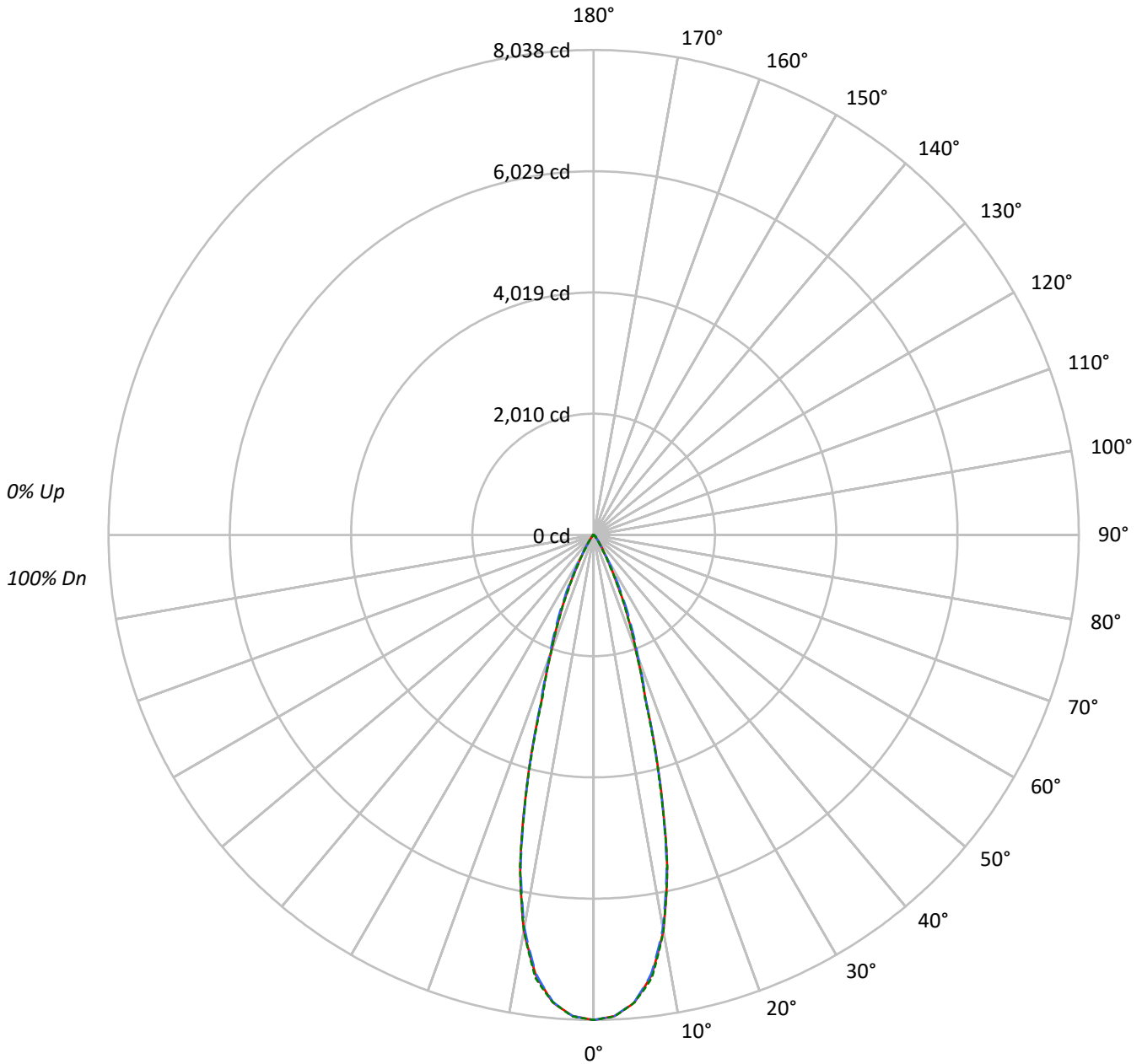


Downlight



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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	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°	615248	615248	615248
5°	597583	596891	597613
10°	517597	513951	517480
15°	337712	335890	334202
20°	167921	174226	167701
25°	84591	95393	82860
30°	33869	36901	29512
35°	15708	15044	12615
40°	6785	7534	6385
45°	4785	5932	4828
50°	1643	4323	1739
55°	947	1788	1001
60°	674	796	674
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.8	28.3
10°-20°	1138.3	45.5
20°-30°	491.9	19.7
30°-40°	112.1	4.5
40°-50°	38.5	1.5
50°-60°	9.4	0.4
60°-70°	2.4	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°	2337.0	93.5
0°-40°	2449.2	98.0
0°-60°	2497.1	99.9
0°-90°	2499.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2499.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8038	8038	8038	8038	8038	
5°	7777	7770	7768	7784	7778	707
15°	4262	4210	4239	4225	4217	1141
25°	1002	1039	1130	1013	981	479
35°	168	172	161	160	135	114
45°	44	55	55	55	45	31
55°	7	8	13	8	8	7
65°	2	2	2	2	2	2
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°	8037.9	8037.9	8037.9	8037.9	8037.9
2.5°	7984.6	7979.1	7982.2	7986.2	7987.7
5°	7777.4	7769.9	7768.4	7784.5	7777.8
7.5°	7359.5	7348.8	7332.7	7369.4	7403.7
10°	6659.4	6647.6	6612.5	6629.8	6657.9
12.5°	5625.9	5587.6	5586.8	5642.1	5634.6
15°	4261.7	4210.3	4238.7	4224.9	4217.4
17.5°	2865.8	2846.1	2883.9	2872.5	2823.2
20°	2061.5	2066.7	2138.9	2102.6	2058.8
22.5°	1504.3	1522.9	1608.5	1515.0	1480.7
25°	1001.6	1039.4	1129.5	1013.0	981.1
27.5°	616.0	633.4	724.6	608.1	590.8
30°	383.2	374.5	417.5	358.3	333.9
32.5°	251.4	240.4	254.2	228.1	208.4
35°	168.1	171.7	161.0	159.9	135.0
37.5°	105.0	120.8	106.6	113.7	86.8
40°	67.9	87.6	75.4	83.2	63.9
42.5°	55.6	67.5	61.9	65.9	56.8
45°	44.2	54.8	54.8	54.8	44.6
47.5°	24.5	36.7	47.0	37.5	26.1
50°	13.8	18.6	36.3	19.3	14.6
52.5°	9.5	10.7	24.9	11.1	9.9
55°	7.1	7.5	13.4	7.9	7.5
57.5°	5.5	5.9	7.1	5.9	5.5
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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