

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: P745075

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745075
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: LD4D25D010-EU4DR3020359035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2424.3 lumens
Efficiency: N/A
Efficacy: 96.6 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): 25.1
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

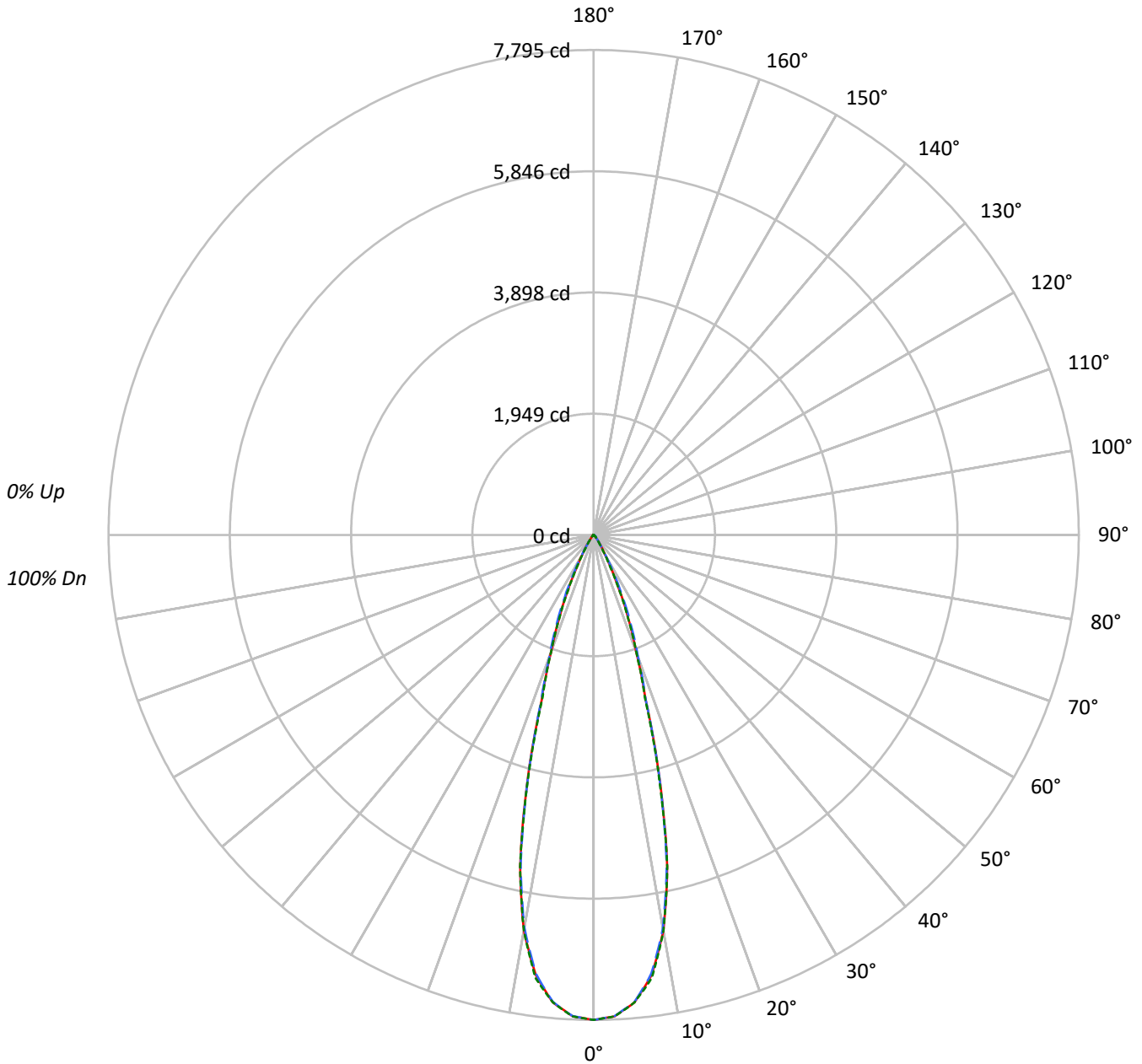


Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	596679	596679	596679
5°	579549	578881	579580
10°	501982	498438	501865
15°	327514	325762	324122
20°	162863	168972	162643
25°	82041	92513	80352
30°	32844	35787	28619
35°	15240	14586	12232
40°	6575	7304	6195
45°	4644	5759	4687
50°	1596	4192	1691
55°	921	1735	974
60°	643	765	643
65°	417	417	417
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5759 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.5	28.3
10°-20°	1104.0	45.5
20°-30°	477.1	19.7
30°-40°	108.7	4.5
40°-50°	37.3	1.5
50°-60°	9.1	0.4
60°-70°	2.3	0.1
70°-80°	0.2	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°	2266.5	93.5
0°-40°	2375.3	98.0
0°-60°	2421.7	99.9
0°-90°	2424.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2424.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7795	7795	7795	7795	7795	
5°	7543	7535	7534	7550	7543	686
15°	4133	4083	4111	4098	4090	1107
25°	971	1008	1095	982	951	465
35°	163	166	156	155	131	111
45°	43	53	53	53	43	30
55°	7	7	13	8	7	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°	7795.3	7795.3	7795.3	7795.3	7795.3
2.5°	7743.7	7738.3	7741.4	7745.2	7746.8
5°	7542.7	7535.4	7534.0	7549.7	7543.1
7.5°	7137.4	7127.1	7111.4	7147.0	7180.3
10°	6458.5	6447.0	6412.9	6429.8	6457.0
12.5°	5456.2	5419.0	5418.2	5471.8	5464.6
15°	4133.0	4083.3	4110.9	4097.5	4090.2
17.5°	2779.3	2760.2	2797.0	2785.9	2738.0
20°	1999.4	2004.4	2074.4	2039.1	1996.7
22.5°	1459.0	1477.0	1560.0	1469.3	1436.0
25°	971.4	1008.1	1095.4	982.4	951.4
27.5°	597.4	614.3	702.7	589.8	573.0
30°	371.6	363.2	404.9	347.5	323.8
32.5°	243.8	233.1	246.5	221.2	202.1
35°	163.1	166.5	156.1	155.0	130.9
37.5°	101.8	117.1	103.4	110.2	84.2
40°	65.8	85.0	73.1	80.7	62.0
42.5°	54.0	65.4	60.1	63.9	55.1
45°	42.9	53.2	53.2	53.2	43.3
47.5°	23.7	35.6	45.5	36.4	25.3
50°	13.4	18.0	35.2	18.7	14.2
52.5°	9.2	10.3	24.1	10.7	9.6
55°	6.9	7.3	13.0	7.7	7.3
57.5°	5.4	5.7	6.9	5.7	5.4
60°	4.2	4.2	5.0	4.6	4.2
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	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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