

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: P747546

Luminaire Tested: LD4D40BD010-EU4DR3040509027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747546
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: LD4D40BD010-EU4DR3040509027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3753.6 lumens
Efficiency: N/A
Efficacy: 106.6 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): 35.2
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

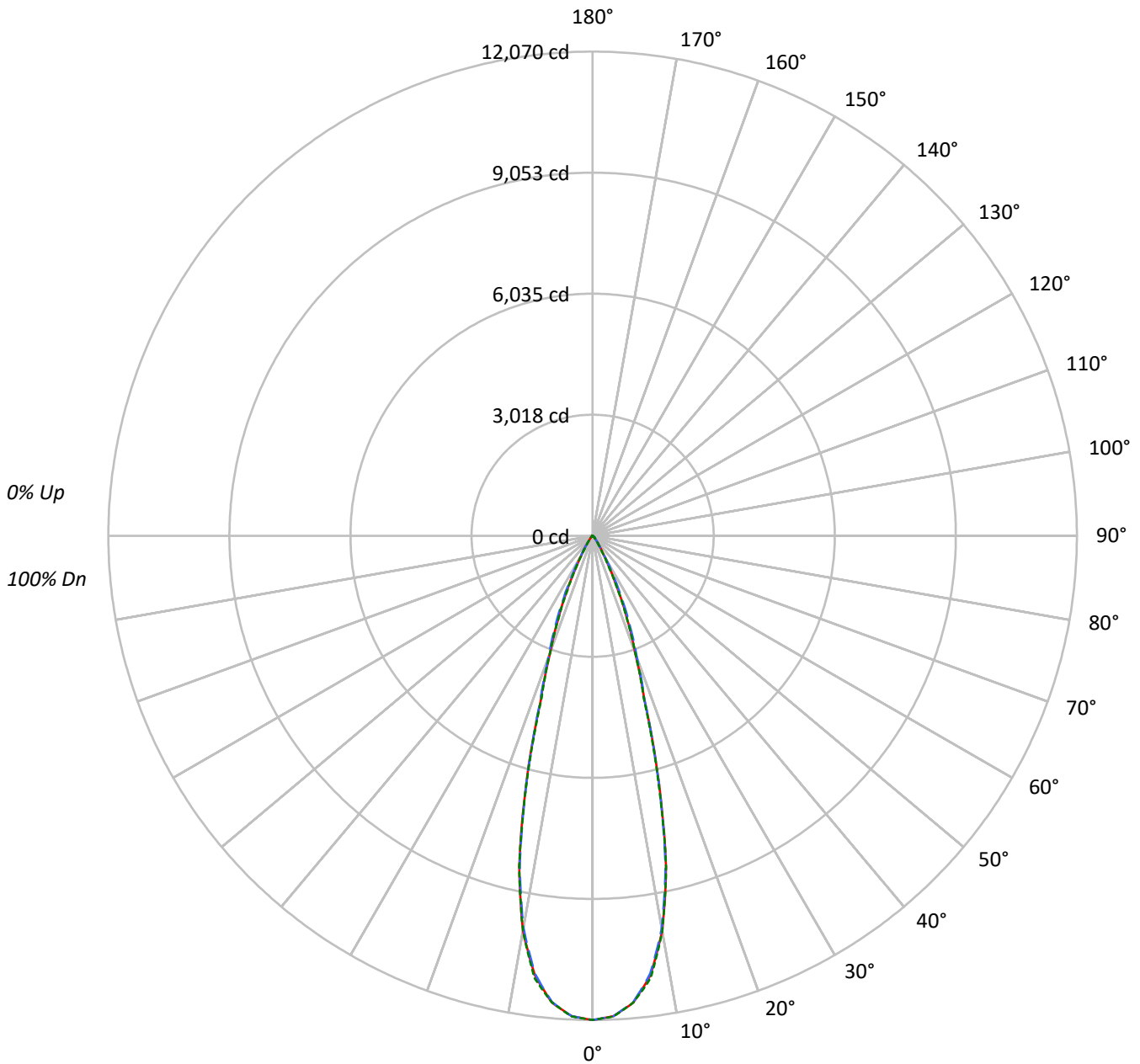


Downlight

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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°	923841	923841	923841
5°	897319	896274	897365
10°	777219	771739	777032
15°	507095	504369	501834
20°	252155	261612	251821
25°	127022	143229	124413
30°	50857	55408	44307
35°	23585	22594	18941
40°	10182	11311	9592
45°	7188	8920	7253
50°	2465	6490	2608
55°	1428	2682	1508
60°	995	1179	995
65°	652	652	652
70°	403	269	403
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8920 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1061.3	28.3
10°-20°	1709.3	45.5
20°-30°	738.6	19.7
30°-40°	168.4	4.5
40°-50°	57.8	1.5
50°-60°	14.1	0.4
60°-70°	3.7	0.1
70°-80°	0.4	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°	3509.2	93.5
0°-40°	3677.6	98.0
0°-60°	3749.5	99.9
0°-90°	3753.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3753.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12070	12070	12070	12070	12070	
5°	11678	11667	11665	11689	11679	1062
15°	6399	6322	6365	6344	6333	1713
25°	1504	1561	1696	1521	1473	720
35°	252	258	242	240	203	171
45°	66	82	82	82	67	47
55°	11	11	20	12	11	10
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
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°	12069.5	12069.5	12069.5	12069.5	12069.5
2.5°	11989.5	11981.2	11986.0	11991.9	11994.3
5°	11678.4	11667.2	11664.8	11689.1	11679.0
7.5°	11050.9	11034.9	11010.6	11065.7	11117.3
10°	9999.7	9981.9	9929.2	9955.2	9997.3
12.5°	8447.7	8390.3	8389.1	8472.0	8460.8
15°	6399.2	6322.2	6364.8	6344.1	6332.8
17.5°	4303.3	4273.6	4330.5	4313.3	4239.3
20°	3095.6	3103.3	3211.7	3157.2	3091.5
22.5°	2258.9	2286.7	2415.3	2274.9	2223.3
25°	1504.0	1560.8	1695.9	1521.1	1473.1
27.5°	925.0	951.1	1088.0	913.2	887.1
30°	575.4	562.4	626.9	538.1	501.3
32.5°	377.5	360.9	381.6	342.5	312.9
35°	252.4	257.8	241.8	240.0	202.7
37.5°	157.6	181.3	160.0	170.7	130.4
40°	101.9	131.6	113.2	125.0	96.0
42.5°	83.6	101.3	93.0	99.0	85.3
45°	66.4	82.4	82.4	82.4	67.0
47.5°	36.7	55.1	70.5	56.3	39.1
50°	20.7	27.9	54.5	29.0	21.9
52.5°	14.2	16.0	37.3	16.6	14.8
55°	10.7	11.3	20.1	11.9	11.3
57.5°	8.3	8.9	10.7	8.9	8.3
60°	6.5	6.5	7.7	7.1	6.5
62.5°	4.7	4.7	5.3	4.7	4.7
65°	3.6	3.6	3.6	3.6	3.6
67.5°	1.8	2.4	2.4	2.4	2.4
70°	1.8	1.2	1.2	1.2	1.8
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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