

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: P747569

Luminaire Tested: LD4D40BD010-EU4DR3040509035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747569
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-EU4DR3040509035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3897.9 lumens
Efficiency: N/A
Efficacy: 110.7 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

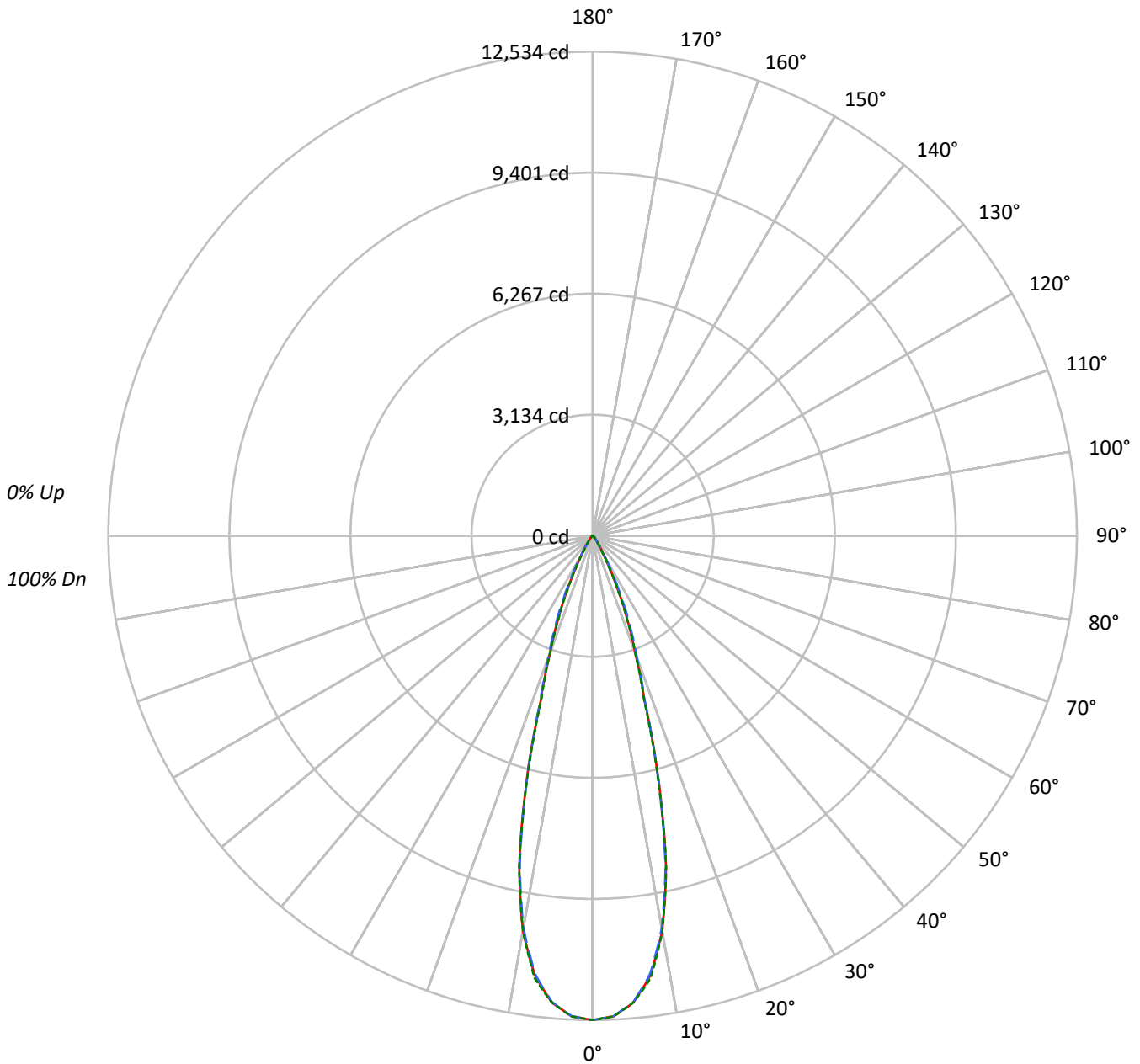


Downlight

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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°	959380	959380	959380
5°	931841	930750	931887
10°	807119	801422	806925
15°	526605	523776	521145
20°	261856	271679	261506
25°	131904	148744	129201
30°	52810	57547	46013
35°	24491	23463	19670
40°	10572	11741	9962
45°	7458	9255	7523
50°	2560	6740	2715
55°	1481	2789	1561
60°	1041	1225	1041
65°	670	670	670
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: 9255 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1102.2	28.3
10°-20°	1775.0	45.5
20°-30°	767.0	19.7
30°-40°	174.8	4.5
40°-50°	60.0	1.5
50°-60°	14.7	0.4
60°-70°	3.8	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°	3644.2	93.5
0°-40°	3819.1	98.0
0°-60°	3893.8	99.9
0°-90°	3897.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12534	12534	12534	12534	12534	
5°	12128	12116	12114	12139	12128	1103
15°	6645	6565	6610	6588	6576	1779
25°	1562	1621	1761	1580	1530	748
35°	262	268	251	249	210	178
45°	69	86	86	86	70	49
55°	11	12	21	12	12	11
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°	12533.8	12533.8	12533.8	12533.8	12533.8
2.5°	12450.8	12442.2	12447.1	12453.2	12455.7
5°	12127.7	12116.0	12113.5	12138.8	12128.3
7.5°	11476.0	11459.4	11434.2	11491.4	11544.9
10°	10384.4	10365.9	10311.1	10338.2	10381.9
12.5°	8772.7	8713.0	8711.8	8797.9	8786.2
15°	6645.4	6565.4	6609.7	6588.1	6576.5
17.5°	4468.8	4438.0	4497.1	4479.3	4402.4
20°	3214.7	3222.7	3335.3	3278.7	3210.4
22.5°	2345.8	2374.7	2508.2	2362.4	2308.9
25°	1561.8	1620.9	1761.2	1579.7	1529.8
27.5°	960.6	987.7	1129.8	948.3	921.2
30°	597.5	584.0	651.1	558.8	520.6
32.5°	392.0	374.8	396.3	355.7	324.9
35°	262.1	267.7	251.1	249.2	210.5
37.5°	163.7	188.3	166.1	177.2	135.4
40°	105.8	136.6	117.5	129.8	99.7
42.5°	86.8	105.2	96.6	102.8	88.6
45°	68.9	85.5	85.5	85.5	69.5
47.5°	38.2	57.2	73.2	58.5	40.6
50°	21.5	28.9	56.6	30.2	22.8
52.5°	14.8	16.6	38.8	17.2	15.4
55°	11.1	11.7	20.9	12.3	11.7
57.5°	8.6	9.2	11.1	9.2	8.6
60°	6.8	6.8	8.0	7.4	6.8
62.5°	4.9	4.9	5.5	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7
67.5°	1.8	2.5	2.5	2.5	2.5
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





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

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