

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: P747595

Luminaire Tested: LD4D40BD010-EU4DR3040509050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747595
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-EU4DR3040509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4109.3 lumens
Efficiency: N/A
Efficacy: 116.7 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

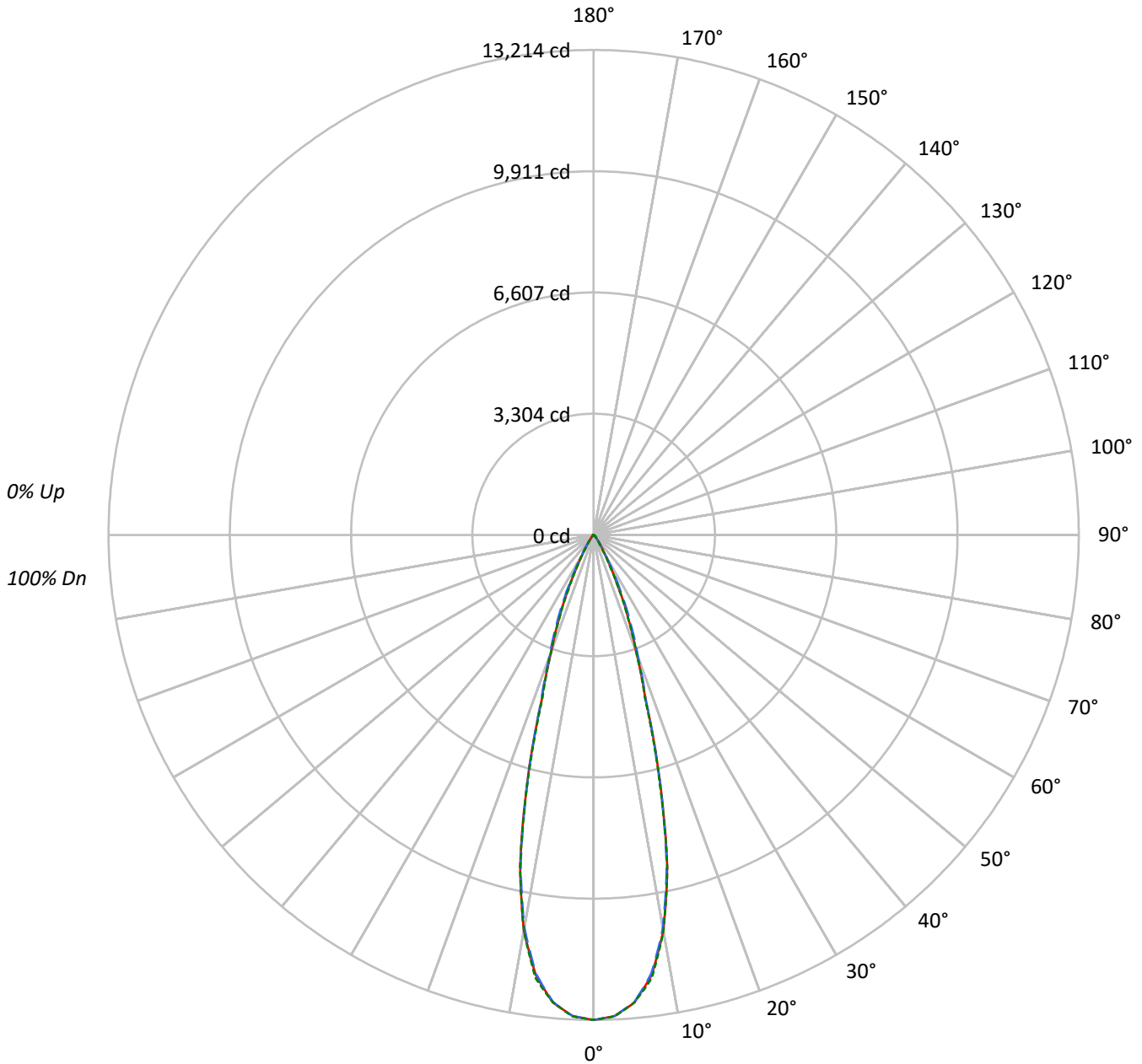


Downlight

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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	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°	1011406	1011406	1011406
5°	982376	981224	982422
10°	850886	844885	850684
15°	555157	552177	549403
20°	276054	286415	275687
25°	139057	156810	136211
30°	55674	60667	48506
35°	25827	24734	20735
40°	11151	12380	10502
45°	7870	9764	7935
50°	2703	7109	2858
55°	1561	2949	1641
60°	1087	1286	1087
65°	706	706	706
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9764 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.9	28.3
10°-20°	1871.3	45.5
20°-30°	808.6	19.7
30°-40°	184.3	4.5
40°-50°	63.3	1.5
50°-60°	15.5	0.4
60°-70°	4.0	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°	3841.9	93.5
0°-40°	4026.2	98.0
0°-60°	4104.9	99.9
0°-90°	4109.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4109.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13214	13214	13214	13214	13214	
5°	12785	12773	12770	12797	12786	1163
15°	7006	6921	6968	6945	6933	1876
25°	1646	1709	1857	1665	1613	788
35°	276	282	265	263	222	187
45°	73	90	90	90	73	52
55°	12	12	22	13	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°	13213.5	13213.5	13213.5	13213.5	13213.5
2.5°	13126.0	13116.9	13122.1	13128.6	13131.1
5°	12785.4	12773.0	12770.4	12797.0	12786.0
7.5°	12098.4	12080.8	12054.2	12114.6	12171.0
10°	10947.5	10928.0	10870.3	10898.8	10944.9
12.5°	9248.4	9185.5	9184.2	9275.0	9262.7
15°	7005.7	6921.4	6968.1	6945.4	6933.1
17.5°	4711.1	4678.7	4741.0	4722.2	4641.1
20°	3389.0	3397.5	3516.2	3456.5	3384.5
22.5°	2473.0	2503.5	2644.3	2490.5	2434.1
25°	1646.5	1708.8	1856.7	1665.3	1612.8
27.5°	1012.7	1041.2	1191.1	999.7	971.2
30°	629.9	615.7	686.4	589.1	548.8
32.5°	413.2	395.1	417.8	375.0	342.5
35°	276.4	282.2	264.7	262.7	221.9
37.5°	172.6	198.5	175.2	186.8	142.7
40°	111.6	144.0	123.9	136.9	105.1
42.5°	91.5	110.9	101.9	108.3	93.4
45°	72.7	90.2	90.2	90.2	73.3
47.5°	40.2	60.3	77.2	61.6	42.8
50°	22.7	30.5	59.7	31.8	24.0
52.5°	15.6	17.5	40.9	18.2	16.2
55°	11.7	12.3	22.1	13.0	12.3
57.5°	9.1	9.7	11.7	9.7	9.1
60°	7.1	7.1	8.4	7.8	7.1
62.5°	5.2	5.2	5.8	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
67.5°	1.9	2.6	2.6	2.6	2.6
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	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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