

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: P740072

Luminaire Tested: LD4D05D010-EU4DR300210IC9024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740072
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: LD4D05D010-EU4DR300210IC9024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 435.8 lumens
Efficiency: N/A
Efficacy: 58.1 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): 7.5
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



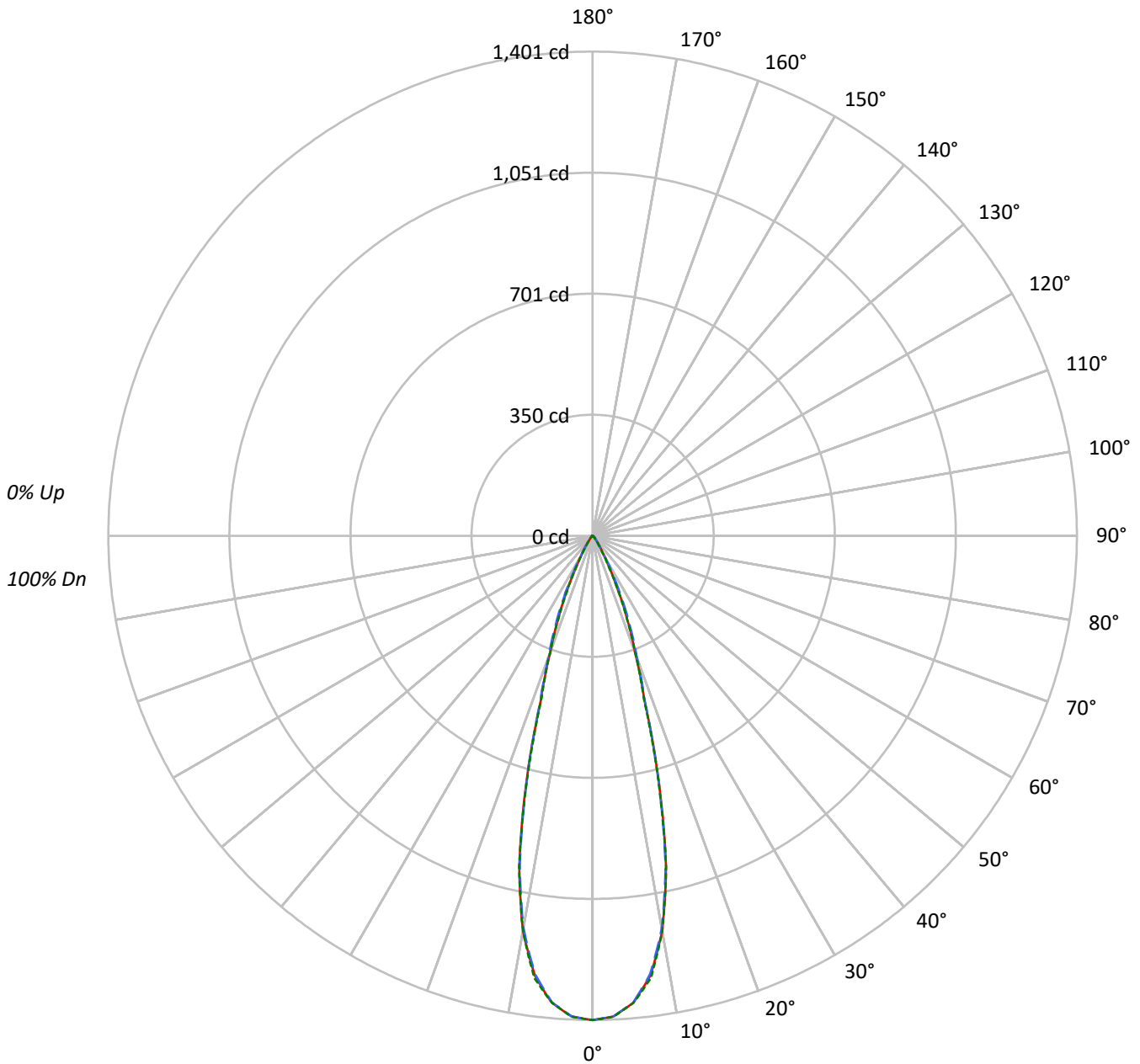
Downlight



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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°	107268	107268	107268
5°	104189	104066	104197
10°	90246	89608	90222
15°	58878	58561	58268
20°	29275	30375	29243
25°	14746	16629	14442
30°	5904	6434	5144
35°	2738	2626	2196
40°	1189	1309	1119
45°	834	1039	844
50°	286	750	298
55°	173	307	173
60°	107	138	107
65°	72	72	72
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1039 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	28.3
10°-20°	198.5	45.5
20°-30°	85.8	19.7
30°-40°	19.5	4.5
40°-50°	6.7	1.5
50°-60°	1.6	0.4
60°-70°	0.4	0.1
70°-80°	0.0	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°	407.5	93.5
0°-40°	427.0	98.0
0°-60°	435.3	99.9
0°-90°	435.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1356	1355	1354	1357	1356	123
15°	743	734	739	737	735	199
25°	175	181	197	177	171	84
35°	29	30	28	28	24	20
45°	8	10	10	10	8	5
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.4	1401.4	1401.4	1401.4	1401.4
2.5°	1392.1	1391.1	1391.7	1392.4	1392.7
5°	1356.0	1354.7	1354.4	1357.2	1356.1
7.5°	1283.1	1281.2	1278.4	1284.8	1290.8
10°	1161.1	1159.0	1152.9	1155.9	1160.8
12.5°	980.9	974.2	974.1	983.7	982.4
15°	743.0	734.1	739.0	736.6	735.3
17.5°	499.7	496.2	502.8	500.8	492.2
20°	359.4	360.3	372.9	366.6	359.0
22.5°	262.3	265.5	280.5	264.1	258.2
25°	174.6	181.2	196.9	176.6	171.0
27.5°	107.4	110.4	126.3	106.1	103.0
30°	66.8	65.3	72.8	62.5	58.2
32.5°	43.8	41.9	44.3	39.8	36.3
35°	29.3	29.9	28.1	27.8	23.5
37.5°	18.3	21.0	18.6	19.8	15.1
40°	11.9	15.3	13.1	14.5	11.2
42.5°	9.7	11.7	10.8	11.5	9.9
45°	7.7	9.6	9.6	9.6	7.8
47.5°	4.2	6.4	8.2	6.5	4.5
50°	2.4	3.2	6.3	3.4	2.5
52.5°	1.7	1.8	4.4	1.9	1.7
55°	1.3	1.3	2.3	1.4	1.3
57.5°	1.0	1.0	1.3	1.0	1.0
60°	0.7	0.7	0.9	0.8	0.7
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.4	0.4	0.4	0.4	0.4
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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