

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: P746814

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746814
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: LD4D35BD010-EU4DR3020359050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 3324.5 lumens
Efficiency: N/A
Efficacy: 107.9 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): 30.8
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

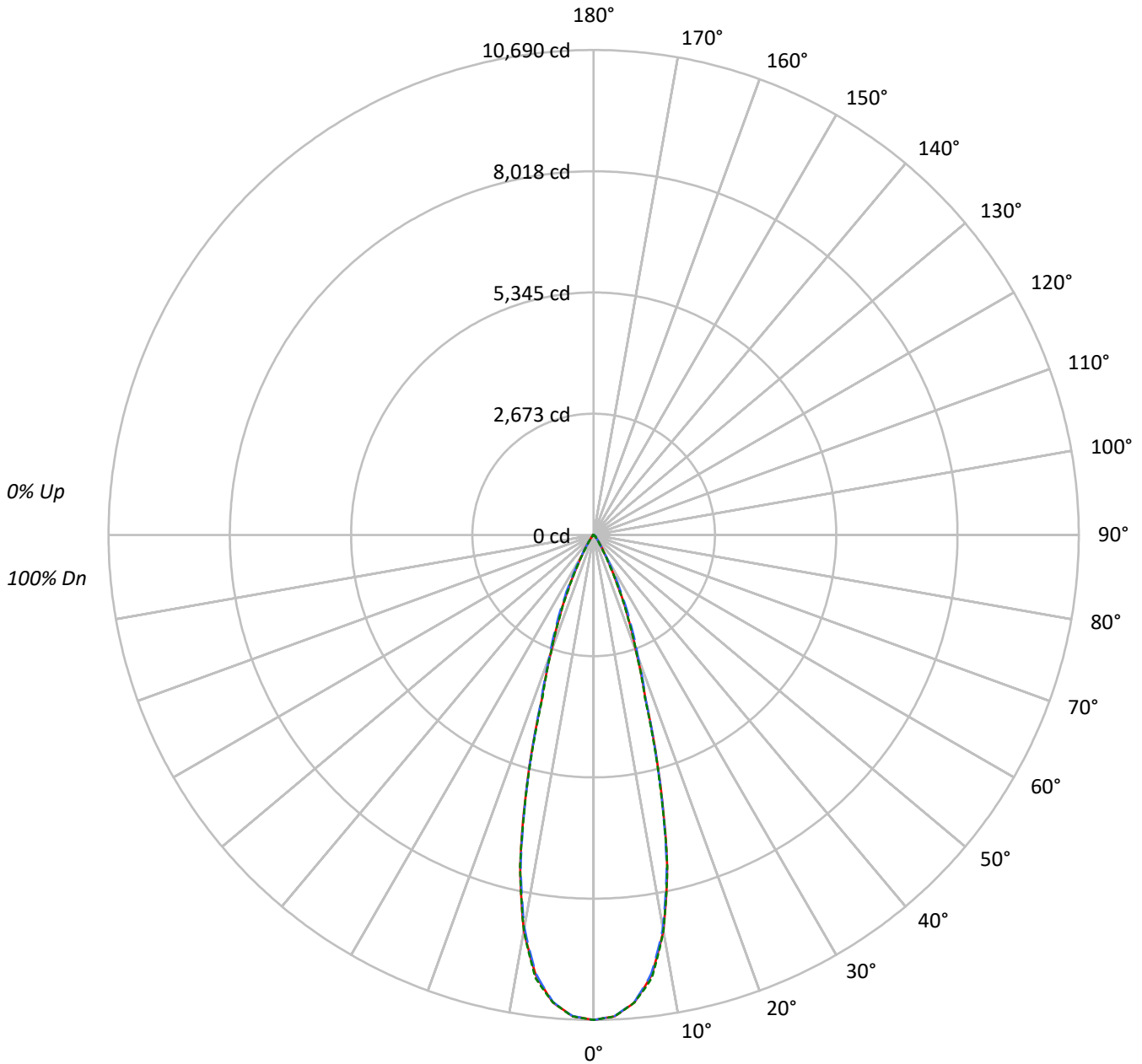


Downlight

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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°	818249	818249	818249
5°	794759	793829	794797
10°	688380	683522	688217
15°	449137	446720	444477
20°	223335	231709	223034
25°	112496	126862	110199
30°	45041	49080	39243
35°	20894	20006	16773
40°	9023	10012	8493
45°	6365	7902	6419
50°	2191	5752	2310
55°	1254	2375	1334
60°	888	1041	888
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7902 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.0	28.3
10°-20°	1513.9	45.5
20°-30°	654.2	19.7
30°-40°	149.1	4.5
40°-50°	51.2	1.5
50°-60°	12.5	0.4
60°-70°	3.2	0.1
70°-80°	0.3	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°	3108.1	93.5
0°-40°	3257.2	98.0
0°-60°	3321.0	99.9
0°-90°	3324.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3324.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10690	10690	10690	10690	10690	
5°	10344	10334	10332	10353	10344	941
15°	5668	5600	5637	5619	5609	1518
25°	1332	1382	1502	1347	1305	638
35°	224	228	214	213	180	152
45°	59	73	73	73	59	42
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
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°	10690.0	10690.0	10690.0	10690.0	10690.0
2.5°	10619.1	10611.8	10616.0	10621.2	10623.3
5°	10343.6	10333.6	10331.5	10353.0	10344.1
7.5°	9787.8	9773.6	9752.1	9800.9	9846.6
10°	8856.7	8841.0	8794.2	8817.3	8854.6
12.5°	7482.1	7431.2	7430.2	7503.7	7493.7
15°	5667.8	5599.5	5637.3	5619.0	5609.0
17.5°	3811.4	3785.2	3835.5	3820.3	3754.7
20°	2741.8	2748.6	2844.6	2796.4	2738.1
22.5°	2000.7	2025.4	2139.3	2014.9	1969.2
25°	1332.0	1382.4	1502.1	1347.3	1304.8
27.5°	819.3	842.4	963.6	808.8	785.7
30°	509.6	498.1	555.3	476.6	444.0
32.5°	334.3	319.6	338.0	303.4	277.1
35°	223.6	228.3	214.1	212.6	179.5
37.5°	139.6	160.6	141.7	151.2	115.5
40°	90.3	116.5	100.2	110.7	85.0
42.5°	74.0	89.7	82.4	87.6	75.6
45°	58.8	73.0	73.0	73.0	59.3
47.5°	32.5	48.8	62.5	49.9	34.6
50°	18.4	24.7	48.3	25.7	19.4
52.5°	12.6	14.2	33.1	14.7	13.1
55°	9.4	10.0	17.8	10.5	10.0
57.5°	7.3	7.9	9.4	7.9	7.3
60°	5.8	5.8	6.8	6.3	5.8
62.5°	4.2	4.2	4.7	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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