

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: P752260

Luminaire Tested: LD4D70BD010-EU4DR3070959040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752260
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: LD4D70BD010-EU4DR3070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5640.9 lumens
Efficiency: N/A
Efficacy: 84.7 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): 66.6
Input Voltage (V): NR
Input Current (Ain): 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

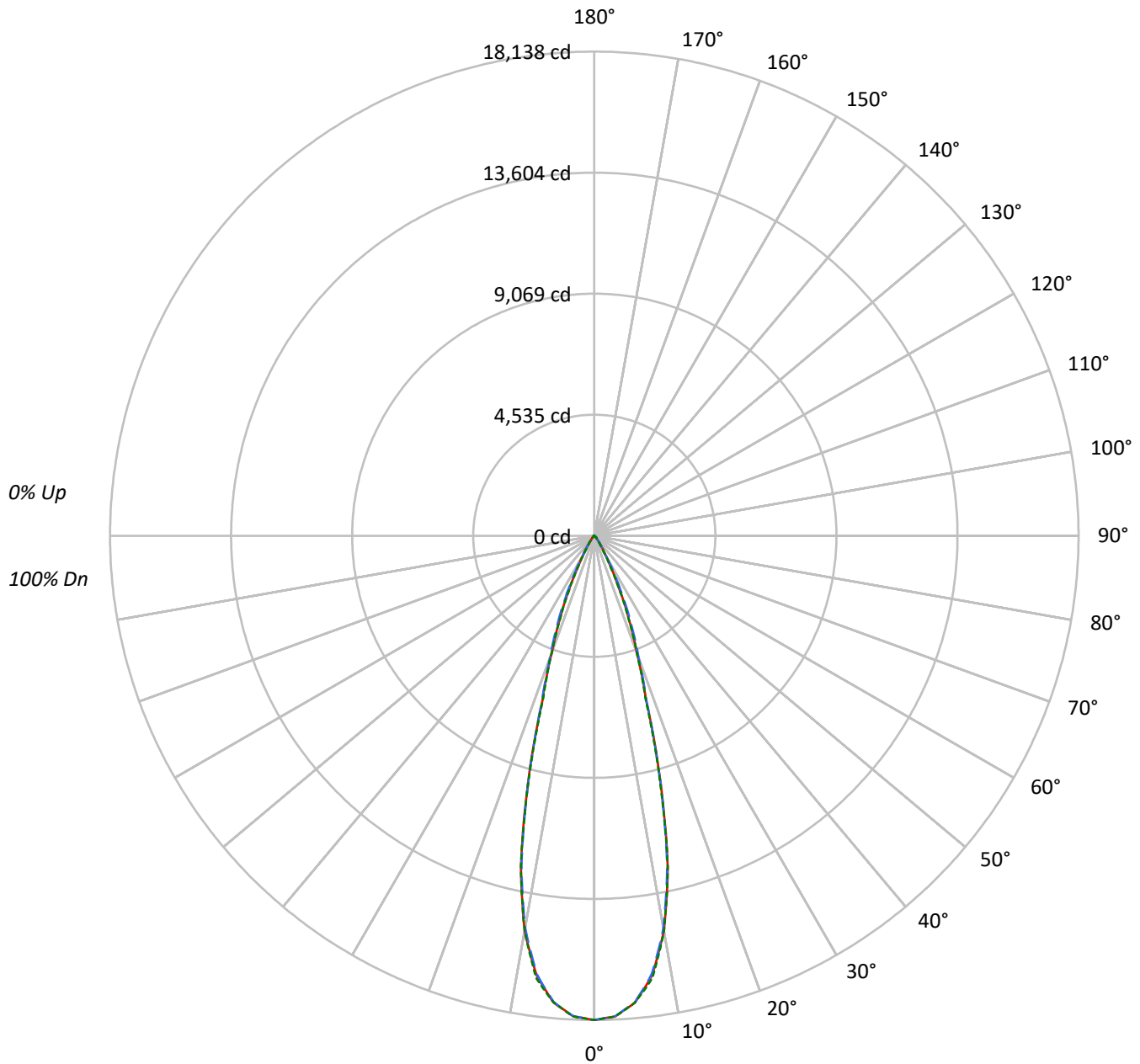


Downlight

TEST NUMBER: P752260

CATALOG NUMBER: LD4D70BD010-EU4DR3070959040-4LBDP1B

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1388352	1388352	1388352
5°	1348499	1346924	1348560
10°	1168000	1159762	1167728
15°	762061	757973	754161
20°	378940	393154	378427
25°	190880	215254	186969
30°	76426	83276	66589
35°	35452	33948	28463
40°	15308	16996	14419
45°	10792	13401	10890
50°	3715	9753	3918
55°	2135	4044	2255
60°	1500	1776	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 13401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1595.0	28.3
10°-20°	2568.7	45.5
20°-30°	1110.0	19.7
30°-40°	253.0	4.5
40°-50°	86.9	1.5
50°-60°	21.2	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5273.7	93.5
0°-40°	5526.7	98.0
0°-60°	5634.8	99.9
0°-90°	5640.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5640.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18138	18138	18138	18138	18138	
5°	17550	17533	17530	17566	17551	1596
15°	9617	9501	9565	9534	9517	2575
25°	2260	2346	2549	2286	2214	1082
35°	379	387	363	361	305	257
45°	100	124	124	124	101	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
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°	18138.1	18138.1	18138.1	18138.1	18138.1
2.5°	18017.9	18005.4	18012.5	18021.4	18025.0
5°	17550.4	17533.4	17529.9	17566.4	17551.2
7.5°	16607.3	16583.3	16546.7	16629.6	16707.0
10°	15027.5	15000.8	14921.5	14960.7	15024.0
12.5°	12695.2	12608.9	12607.1	12731.8	12714.8
15°	9616.7	9501.0	9565.1	9533.9	9517.0
17.5°	6467.0	6422.4	6507.9	6482.1	6370.8
20°	4652.1	4663.6	4826.6	4744.7	4645.8
22.5°	3394.7	3436.5	3629.8	3418.7	3341.2
25°	2260.1	2345.6	2548.7	2286.0	2213.8
27.5°	1390.1	1429.3	1635.0	1372.3	1333.1
30°	864.7	845.1	942.2	808.6	753.4
32.5°	567.3	542.3	573.5	514.7	470.2
35°	379.4	387.4	363.3	360.7	304.6
37.5°	236.9	272.5	240.4	256.5	195.9
40°	153.2	197.7	170.1	187.9	144.3
42.5°	125.6	152.3	139.8	148.7	128.2
45°	99.7	123.8	123.8	123.8	100.6
47.5°	55.2	82.8	106.0	84.6	58.8
50°	31.2	41.9	81.9	43.6	32.9
52.5°	21.4	24.0	56.1	24.9	22.3
55°	16.0	16.9	30.3	17.8	16.9
57.5°	12.5	13.4	16.0	13.4	12.5
60°	9.8	9.8	11.6	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)