

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: P753005

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753005
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: LD4D75BD010-EU4DR3070959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6706.7 lumens
Efficiency: N/A
Efficacy: 92.6 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): 72.4
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

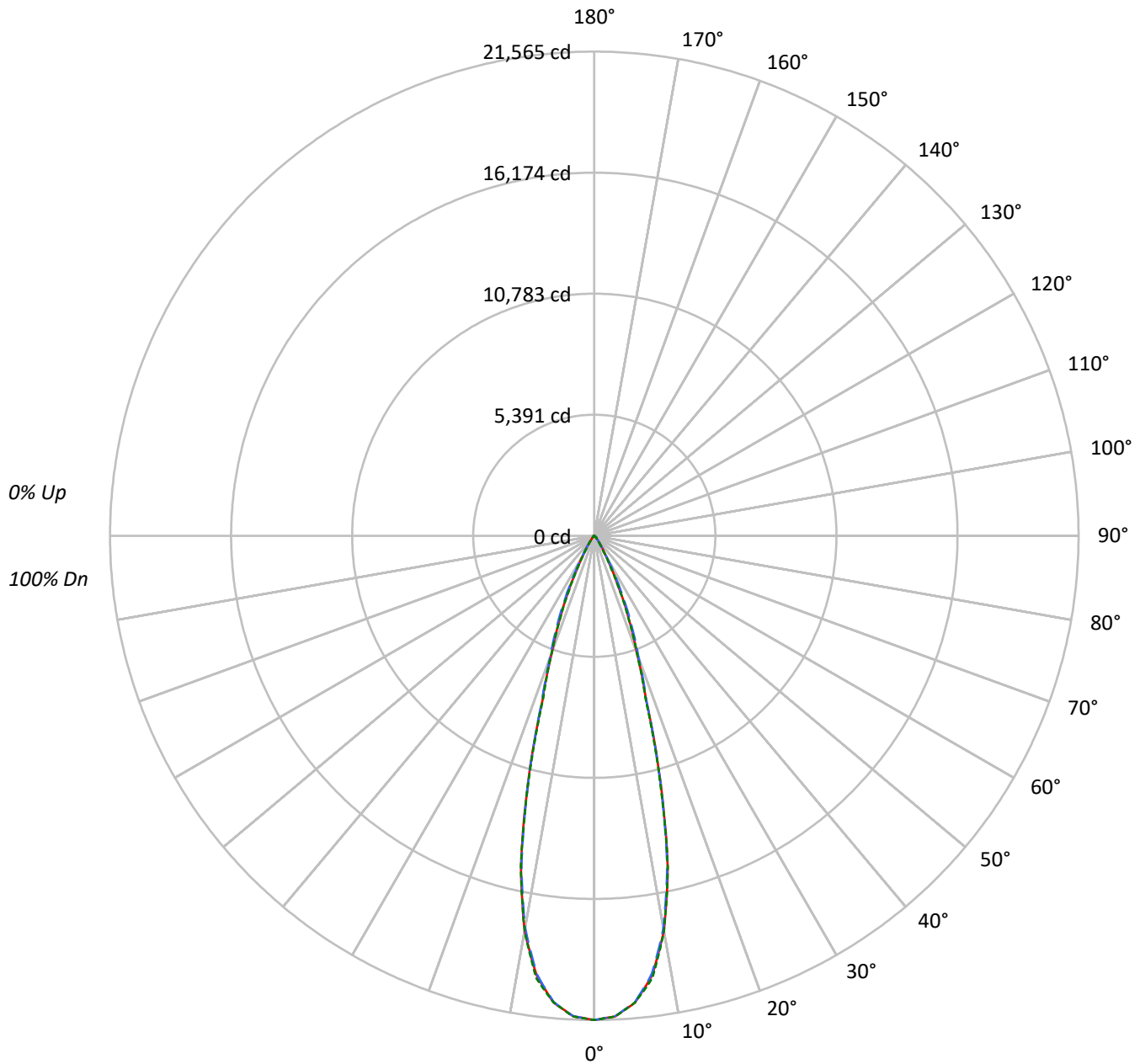


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1650666	1650666	1650666
5°	1603286	1601411	1603363
10°	1388683	1378890	1388356
15°	906047	901181	896649
20°	450532	467442	449929
25°	226951	255919	222297
30°	90868	99009	79166
35°	42142	40367	33835
40°	18195	20204	17136
45°	12838	15934	12947
50°	4418	11598	4668
55°	2549	4804	2682
60°	1776	2113	1776
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15934 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1896.3	28.3
10°-20°	3054.1	45.5
20°-30°	1319.7	19.7
30°-40°	300.8	4.5
40°-50°	103.3	1.5
50°-60°	25.2	0.4
60°-70°	6.5	0.1
70°-80°	0.7	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°	6270.1	93.5
0°-40°	6570.9	98.0
0°-60°	6699.4	99.9
0°-90°	6706.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6706.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21565	21565	21565	21565	21565	
5°	20866	20846	20842	20885	20867	1898
15°	11434	11296	11372	11335	11315	3062
25°	2687	2789	3030	2718	2632	1286
35°	451	461	432	429	362	306
45°	119	147	147	147	120	84
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21565.1	21565.1	21565.1	21565.1	21565.1
2.5°	21422.2	21407.4	21415.9	21426.4	21430.7
5°	20866.4	20846.2	20842.0	20885.4	20867.4
7.5°	19745.1	19716.5	19673.1	19771.6	19863.7
10°	17866.8	17835.1	17740.8	17787.4	17862.6
12.5°	15093.9	14991.2	14989.1	15137.3	15117.2
15°	11433.7	11296.1	11372.3	11335.3	11315.1
17.5°	7688.8	7635.9	7737.5	7706.8	7574.5
20°	5531.0	5544.8	5738.6	5641.2	5523.6
22.5°	4036.1	4085.8	4315.6	4064.6	3972.5
25°	2687.2	2788.8	3030.2	2717.9	2632.1
27.5°	1652.7	1699.3	1943.9	1631.6	1585.0
30°	1028.1	1004.8	1120.2	961.4	895.7
32.5°	674.4	644.8	681.9	612.0	559.0
35°	451.0	460.6	432.0	428.8	362.1
37.5°	281.6	324.0	285.9	304.9	232.9
40°	182.1	235.0	202.2	223.4	171.5
42.5°	149.3	181.1	166.2	176.8	152.5
45°	118.6	147.2	147.2	147.2	119.6
47.5°	65.6	98.5	126.0	100.6	69.9
50°	37.1	49.8	97.4	51.9	39.2
52.5°	25.4	28.6	66.7	29.6	26.5
55°	19.1	20.1	36.0	21.2	20.1
57.5°	14.8	15.9	19.1	15.9	14.8
60°	11.6	11.6	13.8	12.7	11.6
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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



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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)