

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: P753060

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753060
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-EU4DR3070959050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7462.6 lumens
Efficiency: N/A
Efficacy: 103.1 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): 72.4
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

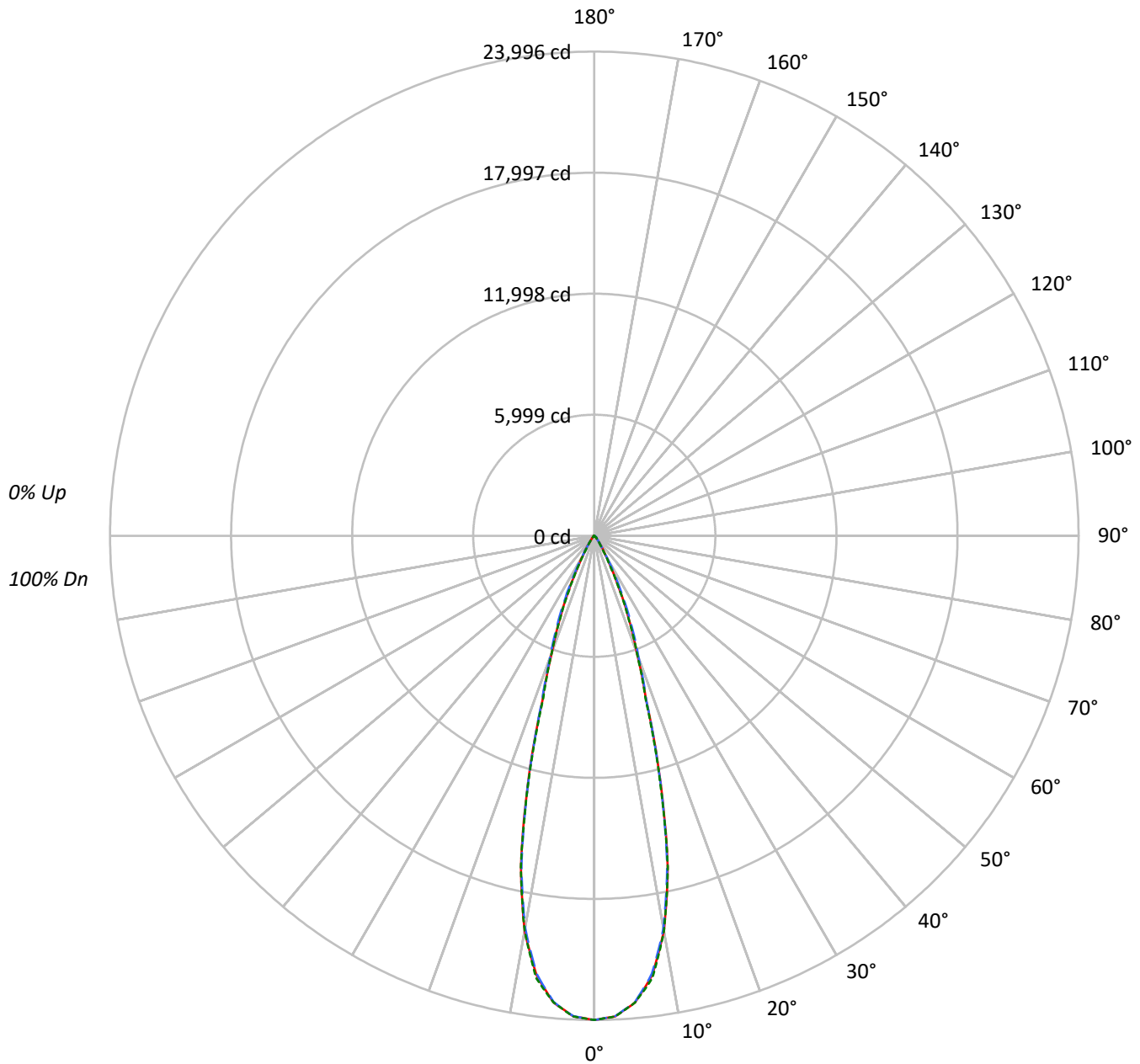


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
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°	1836720	1836720	1836720
5°	1783996	1781914	1784081
10°	1545212	1534315	1544846
15°	1008176	1002756	997716
20°	501320	520128	500644
25°	252533	284770	247356
30°	101103	110163	88093
35°	46899	44918	37648
40°	20244	22482	19075
45°	14278	17731	14408
50°	4906	12908	5192
55°	2829	5351	2989
60°	1990	2342	1990
65°	1286	1286	1286
70°	783	537	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 17731 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2110.1	28.3
10°-20°	3398.3	45.5
20°-30°	1468.5	19.7
30°-40°	334.7	4.5
40°-50°	114.9	1.5
50°-60°	28.1	0.4
60°-70°	7.3	0.1
70°-80°	0.8	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°	6976.9	93.5
0°-40°	7311.5	98.0
0°-60°	7454.6	99.9
0°-90°	7462.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7462.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23996	23996	23996	23996	23996	
5°	23218	23196	23191	23240	23219	2112
15°	12722	12569	12654	12613	12590	3407
25°	2990	3103	3372	3024	2929	1431
35°	502	512	481	477	403	340
45°	132	164	164	164	133	94
55°	21	22	40	24	22	21
65°	7	7	7	7	7	7
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°	23995.8	23995.8	23995.8	23995.8	23995.8
2.5°	23836.8	23820.3	23829.7	23841.5	23846.2
5°	23218.3	23195.9	23191.2	23239.5	23219.4
7.5°	21970.6	21938.8	21890.5	22000.1	22102.6
10°	19880.7	19845.3	19740.5	19792.3	19876.0
12.5°	16795.2	16680.9	16678.6	16843.5	16821.1
15°	12722.5	12569.3	12654.1	12612.9	12590.5
17.5°	8555.5	8496.6	8609.7	8575.5	8428.2
20°	6154.5	6169.8	6385.4	6277.0	6146.2
22.5°	4491.0	4546.3	4802.0	4522.8	4420.3
25°	2990.1	3103.2	3371.8	3024.2	2928.8
27.5°	1839.0	1890.9	2163.0	1815.5	1763.6
30°	1143.9	1118.0	1246.4	1069.7	996.7
32.5°	750.5	717.5	758.7	680.9	622.0
35°	501.9	512.5	480.7	477.1	402.9
37.5°	313.4	360.5	318.1	339.3	259.2
40°	202.6	261.5	225.0	248.6	190.9
42.5°	166.1	201.5	185.0	196.7	169.6
45°	131.9	163.8	163.8	163.8	133.1
47.5°	73.0	109.6	140.2	111.9	77.8
50°	41.2	55.4	108.4	57.7	43.6
52.5°	28.3	31.8	74.2	33.0	29.5
55°	21.2	22.4	40.1	23.6	22.4
57.5°	16.5	17.7	21.2	17.7	16.5
60°	13.0	13.0	15.3	14.1	13.0
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.4	2.4	2.4	3.5
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)