

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: P753006

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753006
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-EU4DR3070959027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7153.2 lumens
Efficiency: N/A
Efficacy: 98.8 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

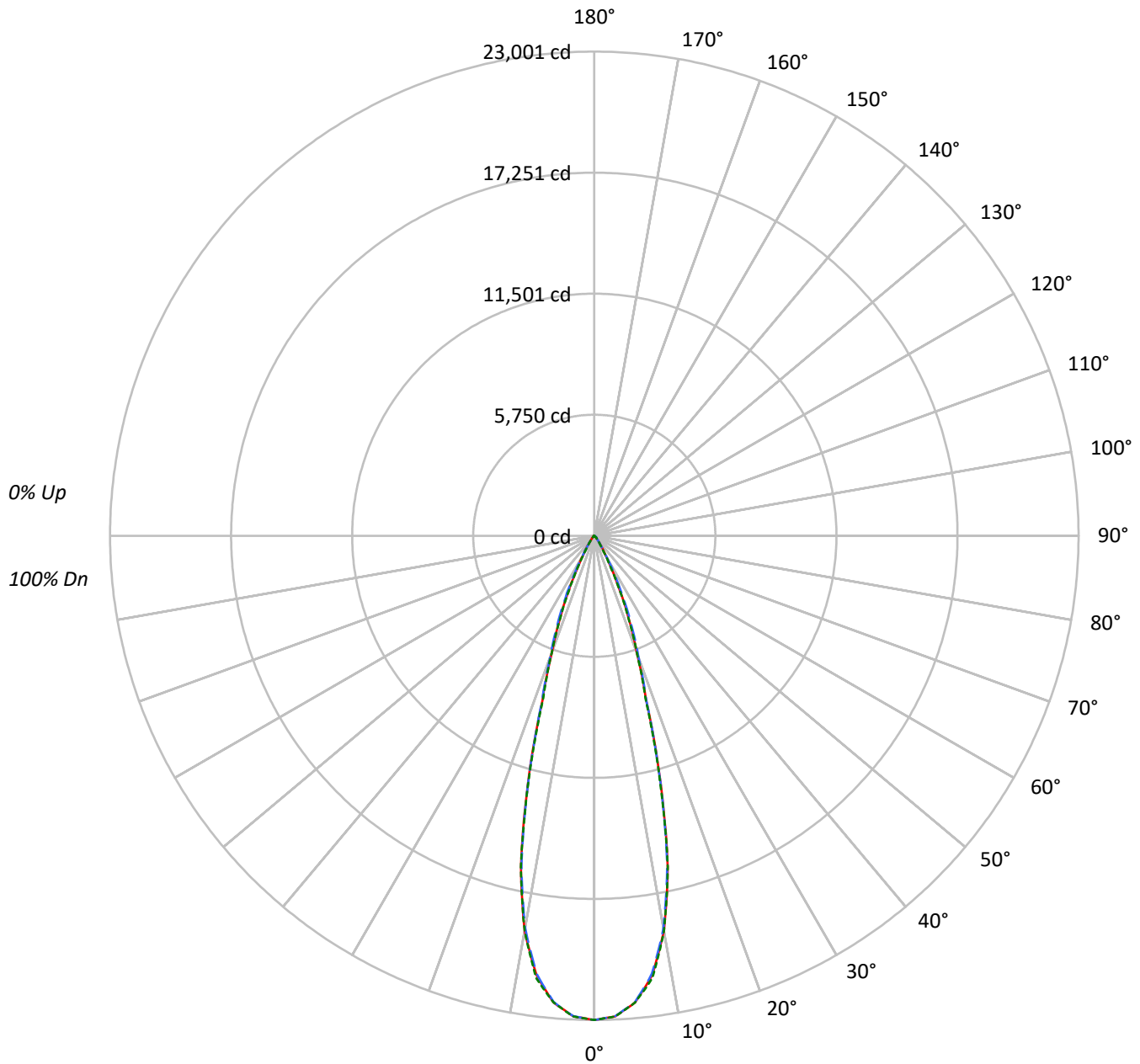


Downlight

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1760567	1760567	1760567
5°	1710026	1708029	1710111
10°	1481143	1470697	1480786
15°	966367	961177	956351
20°	480532	498558	479889
25°	242060	272963	237103
30°	96914	105602	84443
35°	44955	43049	36087
40°	19405	21553	18275
45°	13693	16995	13813
50°	4704	12372	4978
55°	2709	5124	2869
60°	1898	2250	1898
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16995 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2022.6	28.3
10°-20°	3257.4	45.5
20°-30°	1407.6	19.7
30°-40°	320.8	4.5
40°-50°	110.2	1.5
50°-60°	26.9	0.4
60°-70°	7.0	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°	6687.6	93.5
0°-40°	7008.4	98.0
0°-60°	7145.5	99.9
0°-90°	7153.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7153.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23001	23001	23001	23001	23001	
5°	22256	22234	22230	22276	22257	2024
15°	12195	12048	12129	12090	12068	3265
25°	2866	2974	3232	2899	2807	1372
35°	481	491	461	457	386	326
45°	126	157	157	157	128	90
55°	20	22	38	23	22	20
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°	23000.9	23000.9	23000.9	23000.9	23000.9
2.5°	22848.4	22832.6	22841.7	22853.0	22857.5
5°	22255.6	22234.1	22229.6	22275.9	22256.7
7.5°	21059.7	21029.2	20982.9	21087.9	21186.2
10°	19056.4	19022.5	18922.0	18971.7	19051.8
12.5°	16098.8	15989.3	15987.0	16145.1	16123.7
15°	12194.9	12048.1	12129.4	12089.9	12068.5
17.5°	8200.7	8144.3	8252.7	8219.9	8078.8
20°	5899.3	5914.0	6120.6	6016.7	5891.4
22.5°	4304.8	4357.8	4602.9	4335.3	4237.0
25°	2866.1	2974.5	3232.0	2898.8	2807.4
27.5°	1762.8	1812.5	2073.3	1740.2	1690.5
30°	1096.5	1071.7	1194.8	1025.4	955.4
32.5°	719.3	687.7	727.2	652.7	596.3
35°	481.1	491.2	460.7	457.4	386.2
37.5°	300.4	345.6	304.9	325.2	248.4
40°	194.2	250.7	215.7	238.3	182.9
42.5°	159.2	193.1	177.3	188.6	162.6
45°	126.5	157.0	157.0	157.0	127.6
47.5°	70.0	105.0	134.4	107.3	74.5
50°	39.5	53.1	103.9	55.3	41.8
52.5°	27.1	30.5	71.1	31.6	28.2
55°	20.3	21.5	38.4	22.6	21.5
57.5°	15.8	16.9	20.3	16.9	15.8
60°	12.4	12.4	14.7	13.6	12.4
62.5°	9.0	9.0	10.2	9.0	9.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	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)