

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: P754620

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754620
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: LD4D85BD010-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: 8433.6 lumens
Efficiency: N/A
Efficacy: 96.2 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): 87.7
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

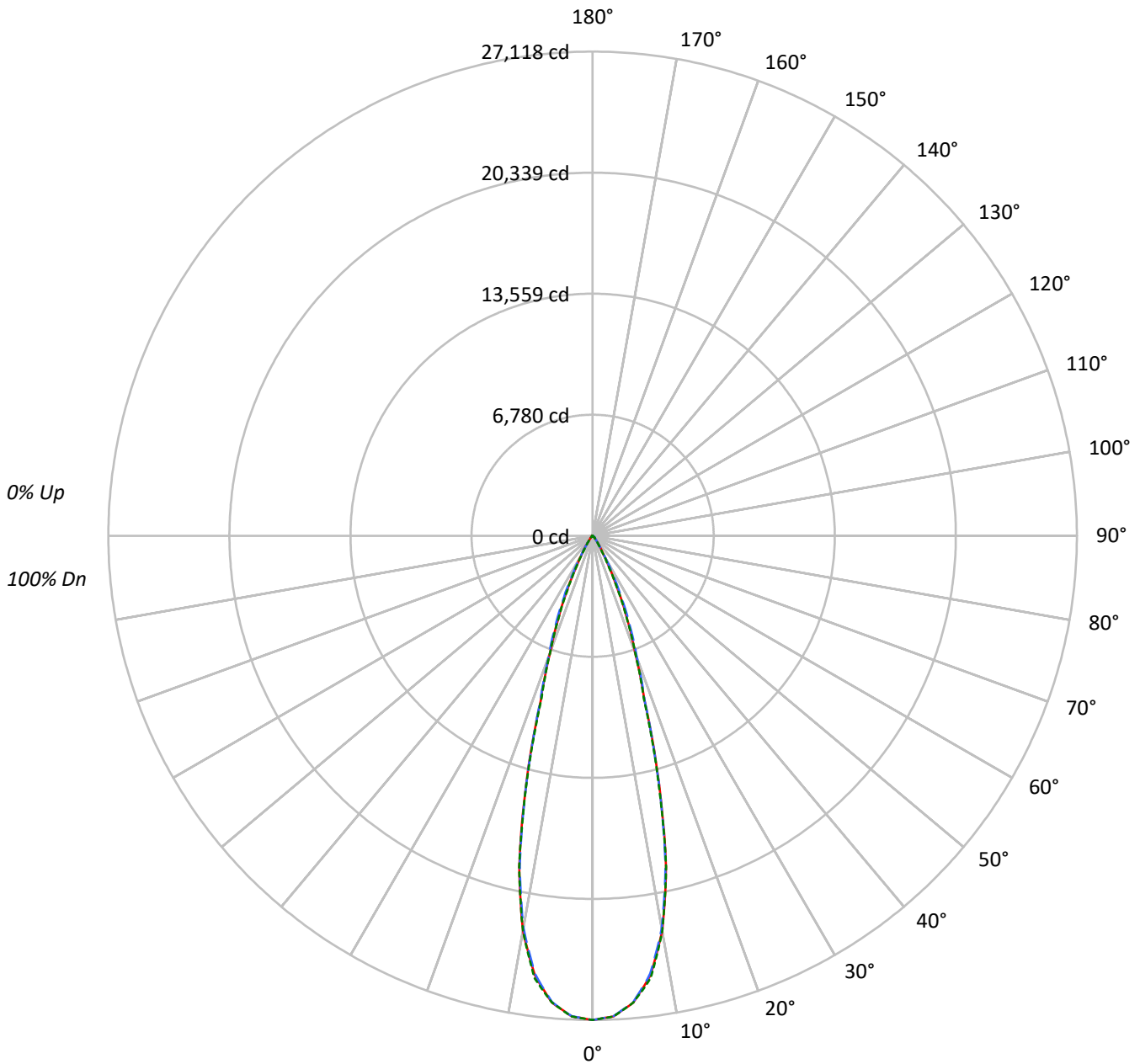


Downlight

TEST NUMBER: P754620

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBS1MW

Luminous Intensity Polar Plot





TEST NUMBER: P754620

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBS1MW

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																			
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°	2075704	2075704	2075704
5°	2016117	2013766	2016225
10°	1746268	1733949	1745849
15°	1139348	1133230	1127533
20°	566549	587801	565784
25°	285386	321821	279542
30°	114264	124499	99557
35°	53000	50758	42544
40°	22882	25410	21553
45°	16140	20037	16281
50°	5549	14587	5871
55°	3203	6045	3376
60°	2235	2648	2235
65°	1449	1449	1449
70°	895	604	895
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20037 cd/sqm



TEST NUMBER: P754620

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2384.6	28.3
10°-20°	3840.5	45.5
20°-30°	1659.6	19.7
30°-40°	378.2	4.5
40°-50°	129.9	1.5
50°-60°	31.7	0.4
60°-70°	8.2	0.1
70°-80°	0.9	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°	7884.6	93.5
0°-40°	8262.9	98.0
0°-60°	8424.5	99.9
0°-90°	8433.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8433.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27118	27118	27118	27118	27118	
5°	26239	26214	26209	26263	26241	2387
15°	14378	14205	14301	14254	14229	3850
25°	3379	3507	3810	3418	3310	1617
35°	567	579	543	539	455	385
45°	149	185	185	185	150	106
55°	24	25	45	27	25	23
65°	8	8	8	8	8	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P754620

CATALOG NUMBER: LD4D85BD010-EU4DR3070959050-4LBS1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	27118.0	27118.0	27118.0	27118.0	27118.0
2.5°	26938.3	26919.7	26930.3	26943.6	26949.0
5°	26239.3	26214.0	26208.7	26263.3	26240.7
7.5°	24829.4	24793.4	24738.8	24862.6	24978.5
10°	22467.5	22427.5	22309.0	22367.6	22462.1
12.5°	18980.5	18851.4	18848.7	19035.1	19009.8
15°	14377.8	14204.8	14300.6	14254.0	14228.7
17.5°	9668.7	9602.1	9729.9	9691.3	9524.9
20°	6955.3	6972.6	7216.2	7093.7	6945.9
22.5°	5075.3	5137.9	5426.8	5111.3	4995.4
25°	3379.1	3506.9	3810.5	3417.7	3309.9
27.5°	2078.3	2136.9	2444.5	2051.7	1993.1
30°	1292.8	1263.5	1408.6	1208.9	1126.4
32.5°	848.1	810.8	857.4	769.6	703.0
35°	567.2	579.2	543.2	539.2	455.3
37.5°	354.2	407.4	359.5	383.4	292.9
40°	229.0	295.6	254.3	280.9	215.7
42.5°	187.7	227.7	209.0	222.3	191.7
45°	149.1	185.1	185.1	185.1	150.4
47.5°	82.5	123.8	158.4	126.5	87.9
50°	46.6	62.6	122.5	65.2	49.3
52.5°	32.0	35.9	83.9	37.3	33.3
55°	24.0	25.3	45.3	26.6	25.3
57.5°	18.6	20.0	24.0	20.0	18.6
60°	14.6	14.6	17.3	16.0	14.6
62.5°	10.7	10.7	12.0	10.7	10.7
65°	8.0	8.0	8.0	8.0	8.0
67.5°	4.0	5.3	5.3	5.3	5.3
70°	4.0	2.7	2.7	2.7	4.0
72.5°	2.7	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)