

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: P755369

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755369
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: LD4D90BD010-EU4DR3070959035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8905.8 lumens
Efficiency: N/A
Efficacy: 90.0 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): 98.9
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

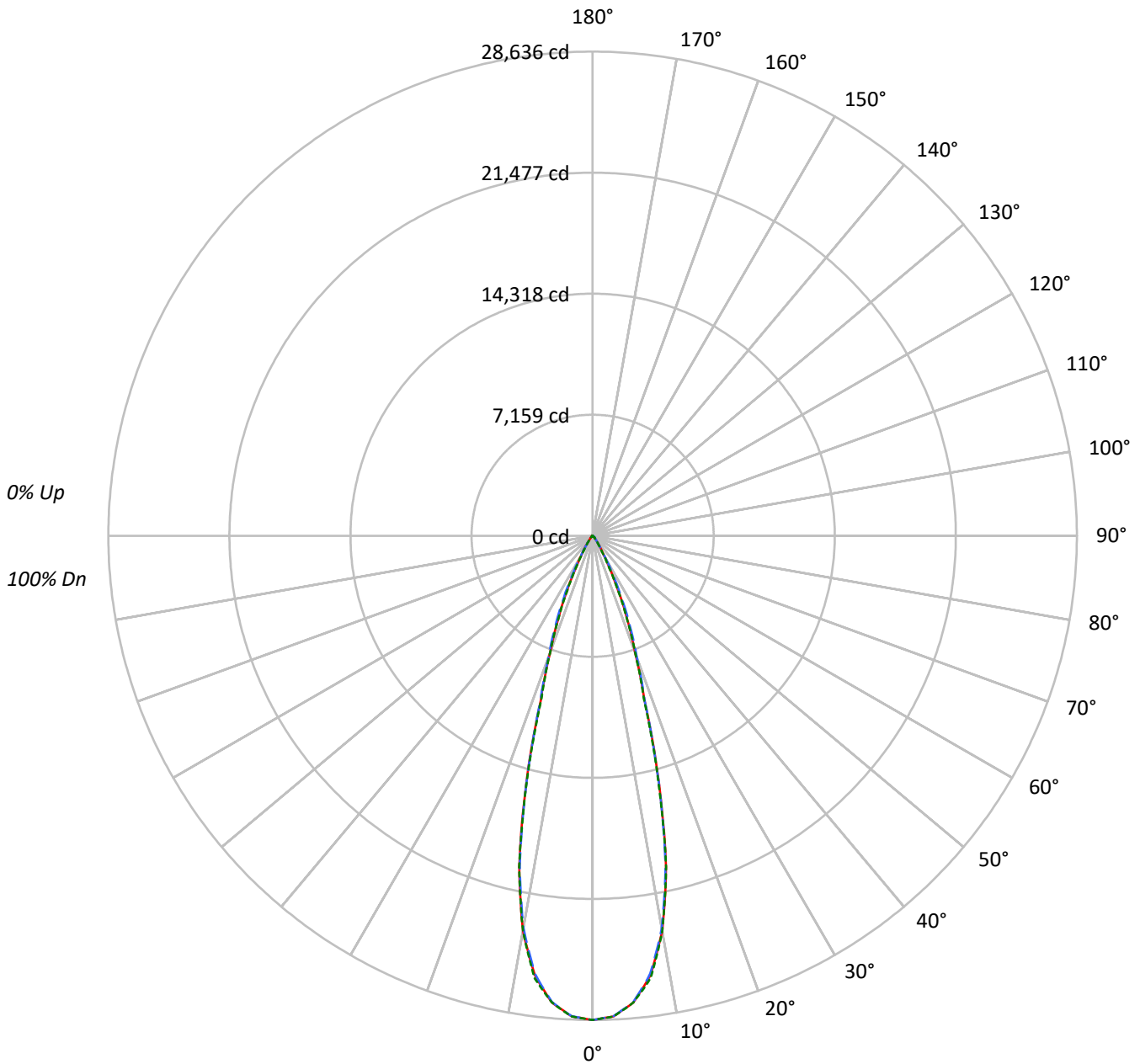


Downlight

TEST NUMBER: P755369

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBDP1LI

Luminous Intensity Polar Plot





TEST NUMBER: P755369

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBDP1LI

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	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°	2191935	2191935	2191935
5°	2129012	2126522	2129119
10°	1844046	1831042	1843610
15°	1203147	1196689	1190666
20°	598268	620717	597470
25°	301365	339835	295192
30°	120663	131472	105125
35°	55963	53598	44927
40°	24161	26829	22762
45°	17049	21152	17201
50°	5859	15397	6192
55°	3376	6379	3563
60°	2373	2801	2373
65°	1521	1521	1521
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21152 cd/sqm



TEST NUMBER: P755369

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBDP1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2518.1	28.3
10°-20°	4055.5	45.5
20°-30°	1752.5	19.7
30°-40°	399.4	4.5
40°-50°	137.1	1.5
50°-60°	33.5	0.4
60°-70°	8.7	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°	8326.1	93.5
0°-40°	8725.5	98.0
0°-60°	8896.2	99.9
0°-90°	8905.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8905.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28636	28636	28636	28636	28636	
5°	27709	27682	27676	27734	27710	2520
15°	15183	15000	15101	15052	15025	4065
25°	3568	3703	4024	3609	3495	1708
35°	599	612	574	569	481	406
45°	158	195	195	195	159	112
55°	25	27	48	28	27	25
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: P755369

CATALOG NUMBER: LD4D90BD010-EU4DR3070959035-4LBDP1LI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28636.5	28636.5	28636.5	28636.5	28636.5
2.5°	28446.7	28427.0	28438.2	28452.3	28457.9
5°	27708.6	27681.8	27676.2	27733.9	27710.0
7.5°	26219.7	26181.7	26124.0	26254.8	26377.1
10°	23725.5	23683.3	23558.2	23620.0	23719.9
12.5°	20043.3	19906.9	19904.1	20100.9	20074.2
15°	15182.9	15000.1	15101.4	15052.2	15025.4
17.5°	10210.0	10139.7	10274.7	10233.9	10058.2
20°	7344.7	7363.0	7620.3	7490.9	7334.9
22.5°	5359.5	5425.6	5730.7	5397.5	5275.1
25°	3568.3	3703.3	4023.8	3609.1	3495.2
27.5°	2194.7	2256.6	2581.3	2166.6	2104.7
30°	1365.2	1334.3	1487.5	1276.6	1189.4
32.5°	895.6	856.2	905.4	812.6	742.3
35°	598.9	611.6	573.6	569.4	480.8
37.5°	374.0	430.2	379.6	404.9	309.3
40°	241.8	312.1	268.5	296.7	227.8
42.5°	198.2	240.4	220.7	234.8	202.5
45°	157.5	195.4	195.4	195.4	158.9
47.5°	87.2	130.8	167.3	133.6	92.8
50°	49.2	66.1	129.3	68.9	52.0
52.5°	33.7	38.0	88.6	39.4	35.1
55°	25.3	26.7	47.8	28.1	26.7
57.5°	19.7	21.1	25.3	21.1	19.7
60°	15.5	15.5	18.3	16.9	15.5
62.5°	11.2	11.2	12.7	11.2	11.2
65°	8.4	8.4	8.4	8.4	8.4
67.5°	4.2	5.6	5.6	5.6	5.6
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)