

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: P748374

Luminaire Tested: LD4D45BD010-EU4DR3040509050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748374
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: LD4D45BD010-EU4DR3040509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4287.0 lumens
Efficiency: N/A
Efficacy: 110.8 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

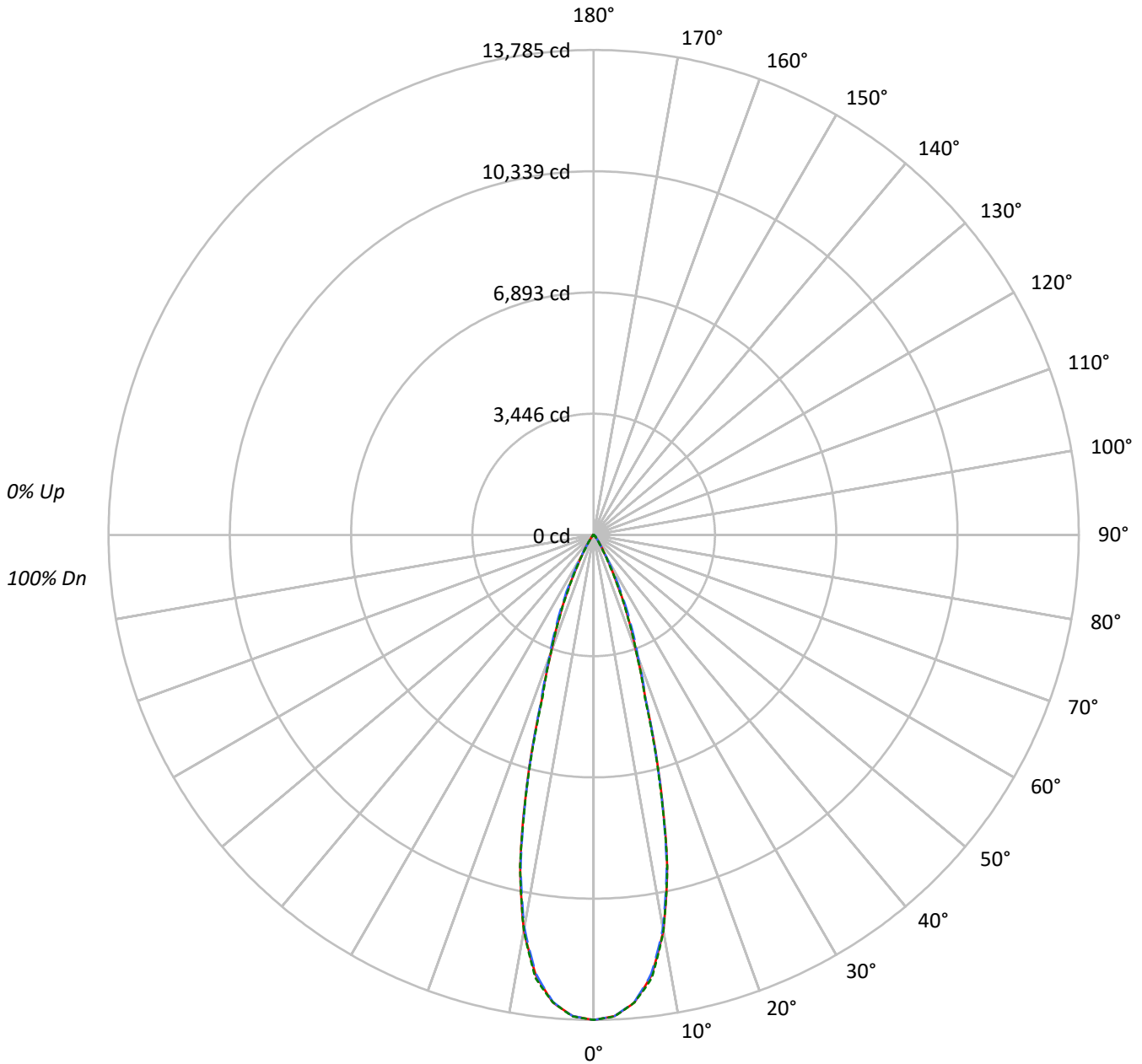
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748374
CATALOG NUMBER: LD4D45BD010-EU4DR3040509050-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P748374

CATALOG NUMBER: LD4D45BD010-EU4DR3040509050-4LBDP1H

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°	1055128	1055128	1055128
5°	1024843	1023645	1024889
10°	887665	881408	887455
15°	579159	576045	573153
20°	287987	298796	287604
25°	145071	163592	142098
30°	58086	63283	50609
35°	26939	25799	21632
40°	11631	12920	10951
45°	8205	10186	8281
50°	2822	7419	2977
55°	1628	3069	1721
60°	1133	1347	1133
65°	743	743	743
70°	448	313	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10186 cd/sqm



TEST NUMBER: P748374

CATALOG NUMBER: LD4D45BD010-EU4DR3040509050-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1212.2	28.3
10°-20°	1952.2	45.5
20°-30°	843.6	19.7
30°-40°	192.3	4.5
40°-50°	66.0	1.5
50°-60°	16.1	0.4
60°-70°	4.2	0.1
70°-80°	0.5	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°	4007.9	93.5
0°-40°	4200.2	98.0
0°-60°	4282.4	99.9
0°-90°	4287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13785	13785	13785	13785	13785	
5°	13338	13325	13322	13350	13339	1213
15°	7309	7221	7269	7246	7233	1957
25°	1718	1783	1937	1737	1682	822
35°	288	294	276	274	232	196
45°	76	94	94	94	76	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P748374

CATALOG NUMBER: LD4D45BD010-EU4DR3040509050-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13784.7	13784.7	13784.7	13784.7	13784.7
2.5°	13693.4	13683.9	13689.3	13696.1	13698.8
5°	13338.1	13325.2	13322.5	13350.2	13338.7
7.5°	12621.3	12603.1	12575.3	12638.3	12697.1
10°	11420.7	11400.4	11340.2	11370.0	11418.0
12.5°	9648.2	9582.6	9581.2	9676.0	9663.1
15°	7308.6	7220.6	7269.3	7245.6	7232.8
17.5°	4914.8	4881.0	4945.9	4926.3	4841.7
20°	3535.5	3544.3	3668.2	3605.9	3530.8
22.5°	2579.9	2611.7	2758.6	2598.2	2539.3
25°	1717.7	1782.6	1937.0	1737.3	1682.5
27.5°	1056.5	1086.2	1242.6	1042.9	1013.1
30°	657.2	642.3	716.0	614.5	572.6
32.5°	431.1	412.2	435.8	391.2	357.3
35°	288.3	294.4	276.1	274.1	231.5
37.5°	180.0	207.1	182.7	194.9	148.9
40°	116.4	150.2	129.3	142.8	109.6
42.5°	95.4	115.7	106.3	113.0	97.5
45°	75.8	94.1	94.1	94.1	76.5
47.5°	42.0	62.9	80.5	64.3	44.7
50°	23.7	31.8	62.3	33.2	25.0
52.5°	16.2	18.3	42.6	18.9	16.9
55°	12.2	12.9	23.0	13.5	12.9
57.5°	9.5	10.2	12.2	10.2	9.5
60°	7.4	7.4	8.8	8.1	7.4
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.1	4.1	4.1	4.1	4.1
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.4	1.4	1.4	2.0
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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)