

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: P748309

Luminaire Tested: LD4D45BD010-EU4DR3040509024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748309
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-EU4DR3040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3448.2 lumens
Efficiency: N/A
Efficacy: 89.1 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

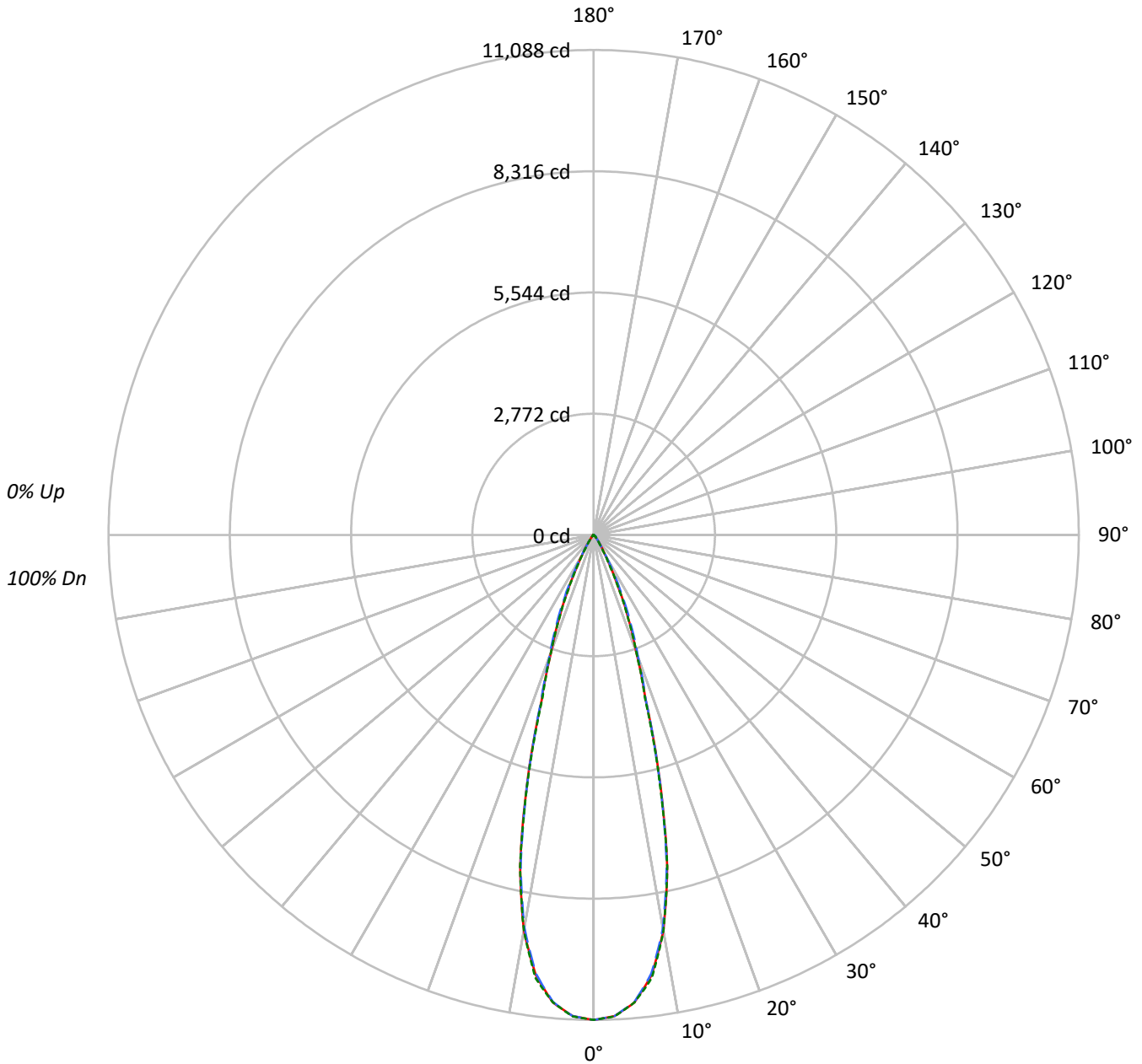
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748309
CATALOG NUMBER: LD4D45BD010-EU4DR3040509024-4LBDP1H

Luminous Intensity Polar Plot





TEST NUMBER: P748309

CATALOG NUMBER: LD4D45BD010-EU4DR3040509024-4LBDP1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					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°	848683	848683	848683
5°	824317	823357	824363
10°	713982	708954	713819
15°	465841	463337	461007
20°	231644	240327	231326
25°	116685	131583	114295
30°	46720	50901	40701
35°	21669	20754	17399
40°	9353	10392	8813
45°	6603	8194	6657
50°	2274	5966	2394
55°	1308	2469	1375
60°	919	1087	919
65°	598	598	598
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8194 cd/sqm



TEST NUMBER: P748309

CATALOG NUMBER: LD4D45BD010-EU4DR3040509024-4LBDP1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.0	28.3
10°-20°	1570.2	45.5
20°-30°	678.5	19.7
30°-40°	154.7	4.5
40°-50°	53.1	1.5
50°-60°	13.0	0.4
60°-70°	3.4	0.1
70°-80°	0.3	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°	3223.7	93.5
0°-40°	3378.4	98.0
0°-60°	3444.5	99.9
0°-90°	3448.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11088	11088	11088	11088	11088	
5°	10728	10718	10716	10738	10729	976
15°	5879	5808	5847	5828	5818	1574
25°	1382	1434	1558	1397	1353	661
35°	232	237	222	220	186	157
45°	61	76	76	76	62	43
55°	10	10	18	11	10	10
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P748309

CATALOG NUMBER: LD4D45BD010-EU4DR3040509024-4LBDP1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11087.6	11087.6	11087.6	11087.6	11087.6
2.5°	11014.1	11006.5	11010.8	11016.3	11018.5
5°	10728.3	10718.0	10715.8	10738.1	10728.9
7.5°	10151.8	10137.1	10114.8	10165.4	10212.8
10°	9186.1	9169.8	9121.4	9145.3	9184.0
12.5°	7760.4	7707.6	7706.6	7782.8	7772.4
15°	5878.6	5807.8	5847.0	5828.0	5817.6
17.5°	3953.2	3925.9	3978.2	3962.4	3894.4
20°	2843.8	2850.8	2950.4	2900.4	2839.9
22.5°	2075.1	2100.7	2218.8	2089.8	2042.5
25°	1381.6	1433.9	1558.0	1397.4	1353.3
27.5°	849.8	873.7	999.5	838.9	814.9
30°	528.6	516.6	575.9	494.3	460.5
32.5°	346.8	331.5	350.6	314.6	287.4
35°	231.9	236.8	222.1	220.5	186.2
37.5°	144.8	166.6	147.0	156.8	119.8
40°	93.6	120.8	104.0	114.9	88.2
42.5°	76.8	93.1	85.5	90.9	78.4
45°	61.0	75.7	75.7	75.7	61.5
47.5°	33.8	50.6	64.8	51.7	35.9
50°	19.1	25.6	50.1	26.7	20.1
52.5°	13.1	14.7	34.3	15.2	13.6
55°	9.8	10.3	18.5	10.9	10.3
57.5°	7.6	8.2	9.8	8.2	7.6
60°	6.0	6.0	7.1	6.5	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)