

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: P748347

Luminaire Tested: LD4D45BD010-EU4DR3040509035-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748347
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-EU4DR3040509035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3273.9 lumens
Efficiency: N/A
Efficacy: 84.6 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

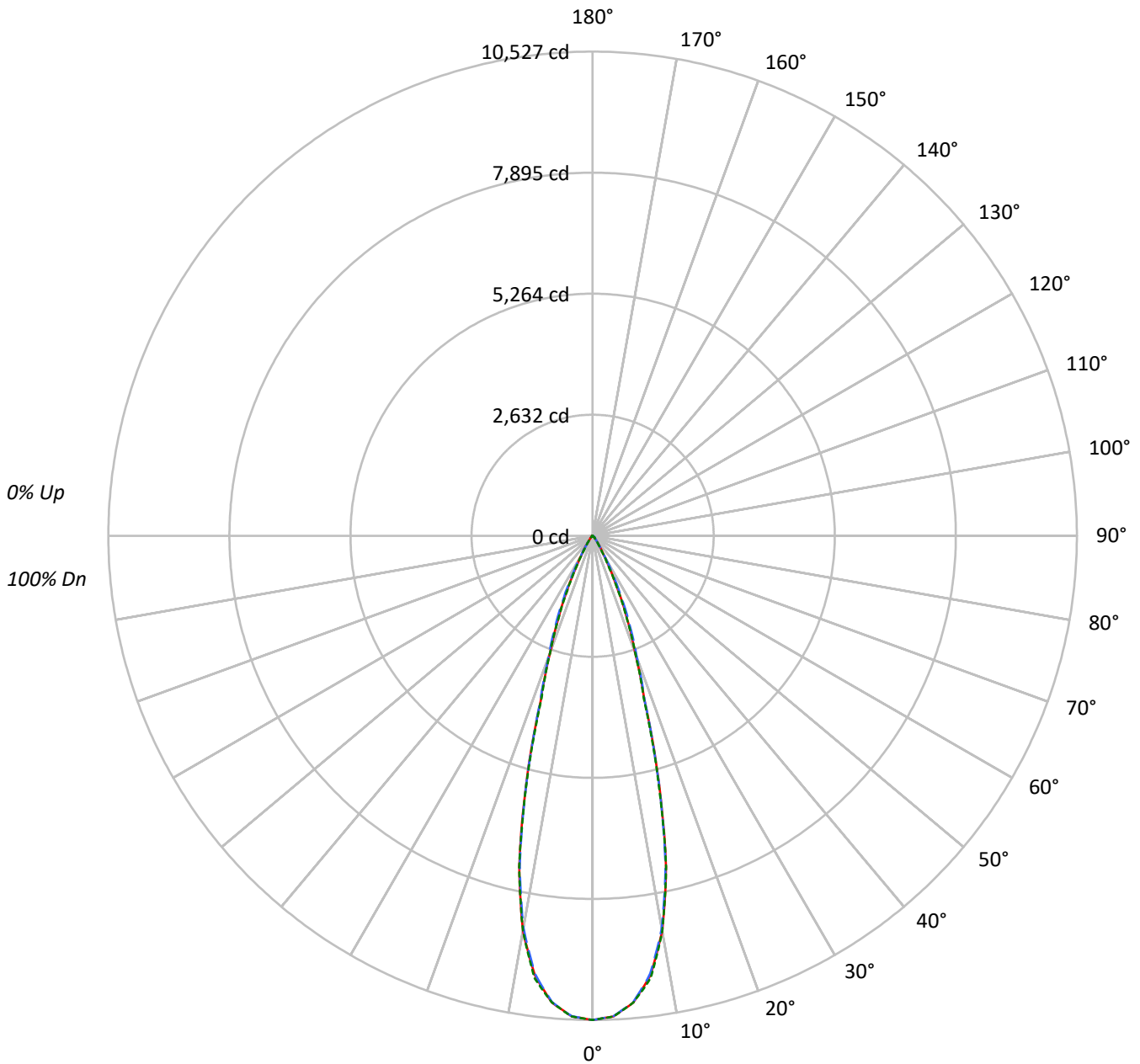
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P748347
CATALOG NUMBER: LD4D45BD010-EU4DR3040509035-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P748347

CATALOG NUMBER: LD4D45BD010-EU4DR3040509035-4LBDP1B

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°	805780	805780	805780
5°	782649	781735	782688
10°	677895	673115	677732
15°	442290	439913	437702
20°	219931	228182	219637
25°	110790	124928	108518
30°	44360	48329	38651
35°	20576	19707	16521
40°	8883	9862	8363
45°	6268	7772	6322
50°	2155	5656	2274
55°	1241	2349	1308
60°	873	1026	873
65°	561	561	561
70°	358	224	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: 7772 cd/sqm



TEST NUMBER: P748347

CATALOG NUMBER: LD4D45BD010-EU4DR3040509035-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.7	28.3
10°-20°	1490.8	45.5
20°-30°	644.2	19.7
30°-40°	146.8	4.5
40°-50°	50.4	1.5
50°-60°	12.3	0.4
60°-70°	3.2	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°	3060.8	93.5
0°-40°	3207.6	98.0
0°-60°	3270.3	99.9
0°-90°	3273.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10527	10527	10527	10527	10527	
5°	10186	10176	10174	10195	10186	926
15°	5581	5514	5551	5533	5524	1494
25°	1312	1361	1479	1327	1285	628
35°	220	225	211	209	177	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	9
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: P748347

CATALOG NUMBER: LD4D45BD010-EU4DR3040509035-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10527.1	10527.1	10527.1	10527.1	10527.1
2.5°	10457.3	10450.1	10454.2	10459.4	10461.5
5°	10186.0	10176.2	10174.1	10195.3	10186.5
7.5°	9638.7	9624.7	9603.5	9651.6	9696.5
10°	8721.8	8706.3	8660.3	8683.0	8719.7
12.5°	7368.2	7318.0	7317.0	7389.3	7379.5
15°	5581.4	5514.2	5551.4	5533.4	5523.5
17.5°	3753.3	3727.5	3777.1	3762.1	3697.5
20°	2700.0	2706.7	2801.3	2753.8	2696.4
22.5°	1970.2	1994.5	2106.7	1984.2	1939.2
25°	1311.8	1361.4	1479.2	1326.7	1284.9
27.5°	806.8	829.5	948.9	796.5	773.7
30°	501.9	490.5	546.8	469.3	437.3
32.5°	329.2	314.8	332.8	298.7	272.9
35°	220.2	224.8	210.9	209.3	176.8
37.5°	137.5	158.2	139.5	148.9	113.7
40°	88.9	114.7	98.7	109.1	83.7
42.5°	72.9	88.4	81.1	86.3	74.4
45°	57.9	71.8	71.8	71.8	58.4
47.5°	32.0	48.1	61.5	49.1	34.1
50°	18.1	24.3	47.5	25.3	19.1
52.5°	12.4	14.0	32.6	14.5	12.9
55°	9.3	9.8	17.6	10.3	9.8
57.5°	7.2	7.8	9.3	7.8	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.7	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	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)