

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: P748335

Luminaire Tested: LD4D45BD010-EU4DR3040509030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748335
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-EU4DR3040509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.1 lumens
Efficiency: N/A
Efficacy: 104.0 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

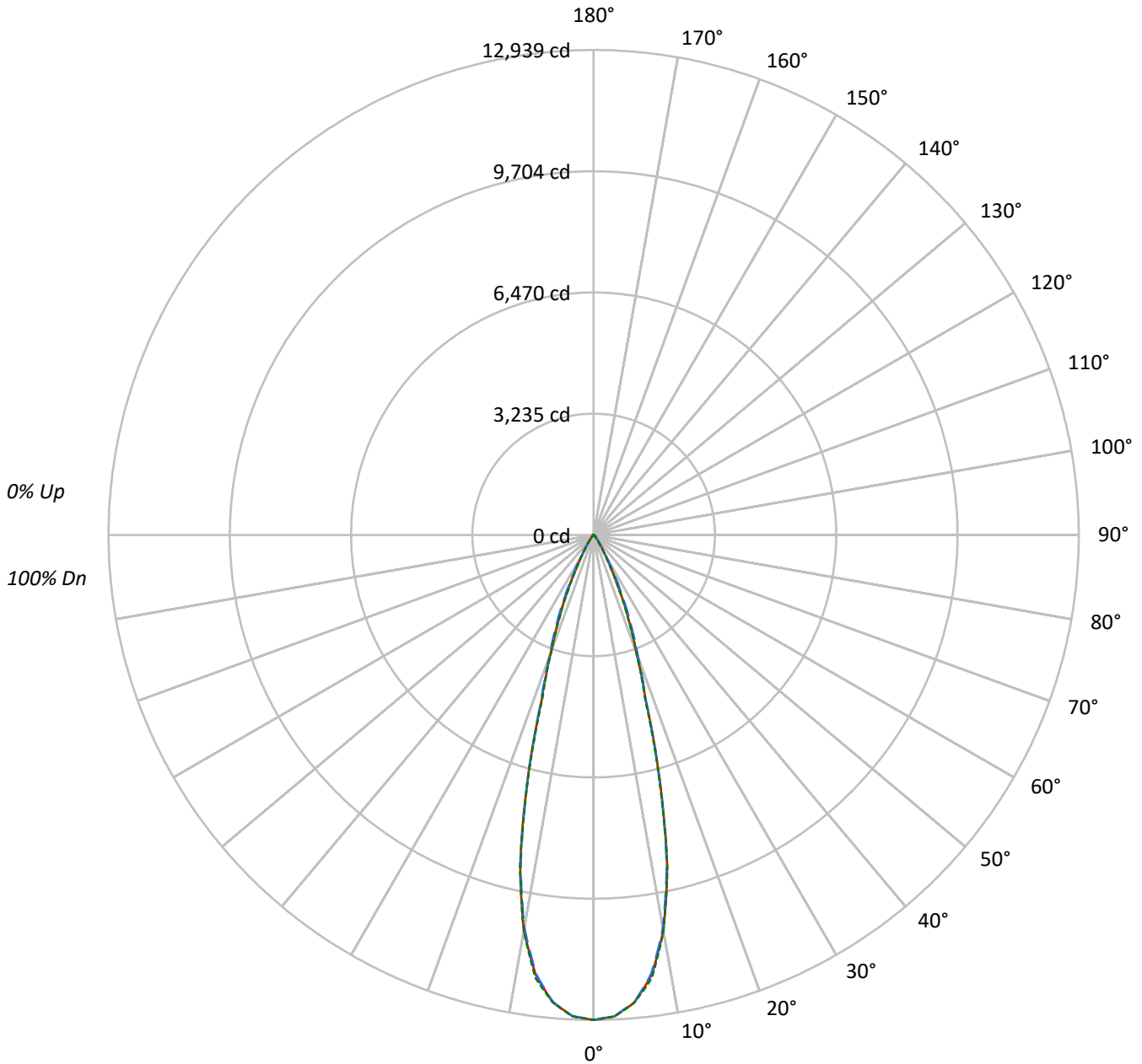
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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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°	990426	990426	990426
5°	961992	960870	962038
10°	833227	827351	833032
15°	543642	540718	538000
20°	270327	280469	269961
25°	136169	153558	133382
30°	54525	59403	47498
35°	25285	24220	20305
40°	10921	12120	10282
45°	7707	9558	7772
50°	2644	6954	2798
55°	1521	2883	1615
60°	1072	1271	1072
65°	688	688	688
70°	425	291	425
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 9558 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.8	28.3
10°-20°	1832.5	45.5
20°-30°	791.9	19.7
30°-40°	180.5	4.5
40°-50°	62.0	1.5
50°-60°	15.1	0.4
60°-70°	3.9	0.1
70°-80°	0.4	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°	3762.2	93.5
0°-40°	3942.6	98.0
0°-60°	4019.7	99.9
0°-90°	4024.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12939	12939	12939	12939	12939	
5°	12520	12508	12506	12532	12521	1139
15°	6860	6778	6824	6801	6789	1837
25°	1612	1673	1818	1631	1579	772
35°	271	276	259	257	217	184
45°	71	88	88	88	72	51
55°	11	12	22	13	12	11
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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12939.4	12939.4	12939.4	12939.4	12939.4
2.5°	12853.6	12844.7	12849.8	12856.1	12858.7
5°	12520.1	12508.0	12505.5	12531.5	12520.7
7.5°	11847.3	11830.2	11804.1	11863.2	11918.5
10°	10720.3	10701.3	10644.7	10672.7	10717.8
12.5°	9056.5	8994.9	8993.6	9082.6	9070.5
15°	6860.4	6777.8	6823.5	6801.3	6789.2
17.5°	4613.4	4581.6	4642.6	4624.2	4544.8
20°	3318.7	3327.0	3443.2	3384.8	3314.2
22.5°	2421.7	2451.5	2589.4	2438.8	2383.6
25°	1612.3	1673.3	1818.2	1630.8	1579.3
27.5°	991.7	1019.6	1166.4	979.0	951.0
30°	616.9	602.9	672.1	576.8	537.4
32.5°	404.7	386.9	409.1	367.2	335.4
35°	270.6	276.3	259.2	257.3	217.3
37.5°	169.0	194.4	171.5	183.0	139.8
40°	109.3	141.0	121.3	134.0	102.9
42.5°	89.6	108.6	99.7	106.1	91.5
45°	71.2	88.3	88.3	88.3	71.8
47.5°	39.4	59.1	75.6	60.4	41.9
50°	22.2	29.9	58.4	31.1	23.5
52.5°	15.2	17.2	40.0	17.8	15.9
55°	11.4	12.1	21.6	12.7	12.1
57.5°	8.9	9.5	11.4	9.5	8.9
60°	7.0	7.0	8.3	7.6	7.0
62.5°	5.1	5.1	5.7	5.1	5.1
65°	3.8	3.8	3.8	3.8	3.8
67.5°	1.9	2.5	2.5	2.5	2.5
70°	1.9	1.3	1.3	1.3	1.9
72.5°	1.3	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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