

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: P748375

Luminaire Tested: LD4D45BD010-EU4DR3040509050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748375
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-EU4DR3040509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4501.3 lumens
Efficiency: N/A
Efficacy: 116.3 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

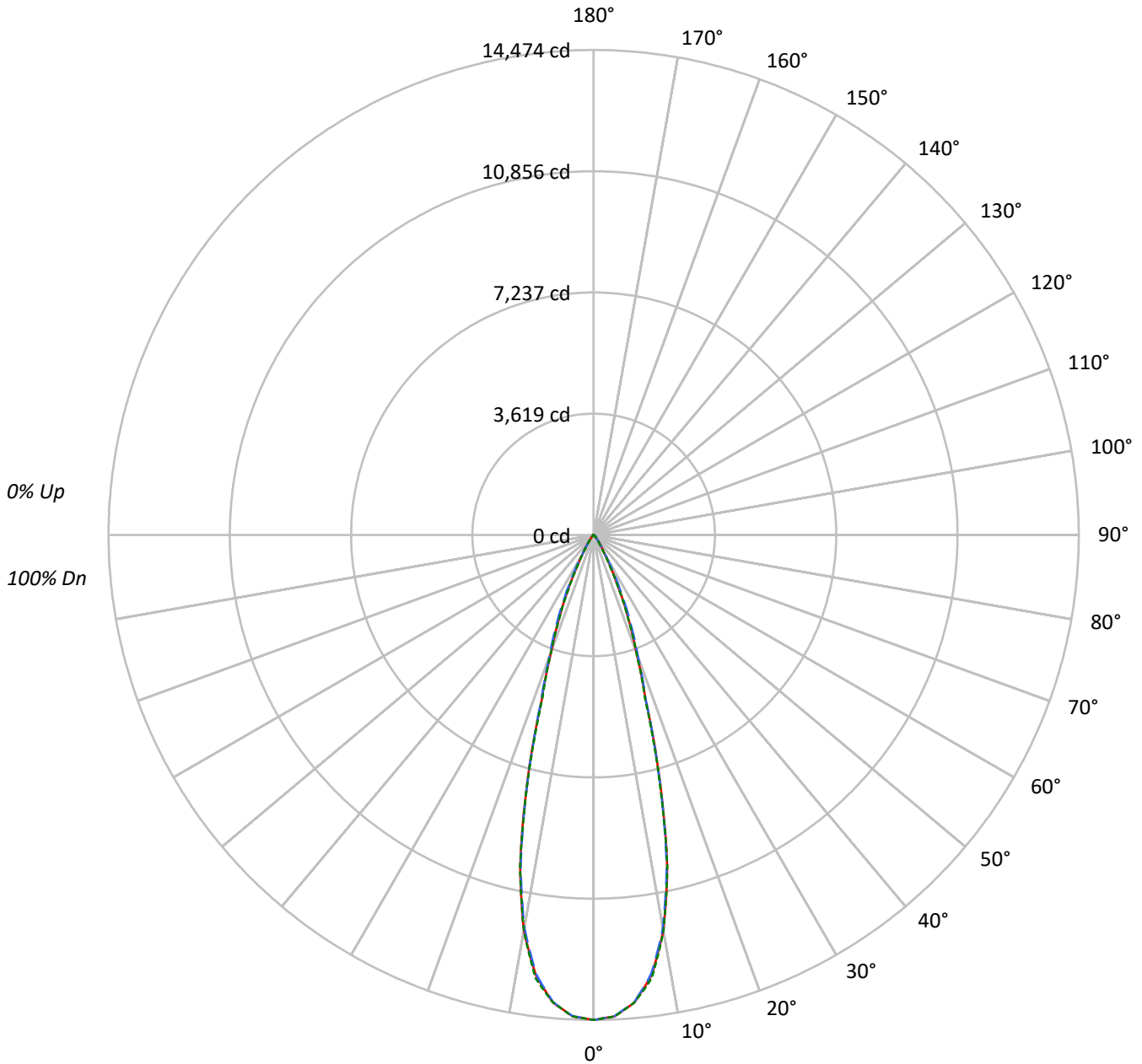
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1107889	1107889	1107889
5°	1076085	1074825	1076139
10°	932053	925478	931828
15°	608115	604850	601807
20°	302388	313735	301981
25°	152325	171767	149200
30°	60985	66448	53137
35°	28285	27089	22706
40°	12210	13559	11501
45°	8617	10695	8692
50°	2965	7788	3132
55°	1708	3229	1802
60°	1194	1408	1194
65°	779	779	779
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10695 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1272.8	28.3
10°-20°	2049.8	45.5
20°-30°	885.8	19.7
30°-40°	201.9	4.5
40°-50°	69.3	1.5
50°-60°	16.9	0.4
60°-70°	4.4	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°	4208.3	93.5
0°-40°	4410.2	98.0
0°-60°	4496.5	99.9
0°-90°	4501.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4501.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14474	14474	14474	14474	14474	
5°	14005	13992	13989	14018	14006	1274
15°	7674	7582	7633	7608	7594	2055
25°	1804	1872	2034	1824	1767	863
35°	303	309	290	288	243	205
45°	80	99	99	99	80	56
55°	13	14	24	14	14	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14474.0	14474.0	14474.0	14474.0	14474.0
2.5°	14378.0	14368.1	14373.8	14380.9	14383.7
5°	14005.0	13991.5	13988.6	14017.7	14005.7
7.5°	13252.4	13233.2	13204.1	13270.2	13332.0
10°	11991.8	11970.4	11907.2	11938.5	11988.9
12.5°	10130.6	10061.7	10060.3	10159.8	10146.3
15°	7674.0	7581.6	7632.8	7607.9	7594.4
17.5°	5160.5	5125.0	5193.2	5172.6	5083.8
20°	3712.3	3721.5	3851.6	3786.2	3707.3
22.5°	2708.9	2742.3	2896.5	2728.1	2666.3
25°	1803.6	1871.8	2033.8	1824.2	1766.6
27.5°	1109.3	1140.5	1304.7	1095.1	1063.8
30°	690.0	674.4	751.8	645.2	601.2
32.5°	452.7	432.8	457.6	410.7	375.2
35°	302.7	309.1	289.9	287.8	243.0
37.5°	189.0	217.5	191.9	204.7	156.3
40°	122.2	157.8	135.7	149.9	115.1
42.5°	100.2	121.5	111.6	118.7	102.3
45°	79.6	98.8	98.8	98.8	80.3
47.5°	44.1	66.1	84.6	67.5	46.9
50°	24.9	33.4	65.4	34.8	26.3
52.5°	17.1	19.2	44.8	19.9	17.8
55°	12.8	13.5	24.2	14.2	13.5
57.5°	9.9	10.7	12.8	10.7	9.9
60°	7.8	7.8	9.2	8.5	7.8
62.5°	5.7	5.7	6.4	5.7	5.7
65°	4.3	4.3	4.3	4.3	4.3
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
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



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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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