

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: P755380

Luminaire Tested: LD4D90BD010-EU4DR3070959040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755380
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: LD4D90BD010-EU4DR3070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7147.8 lumens
Efficiency: N/A
Efficacy: 72.3 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

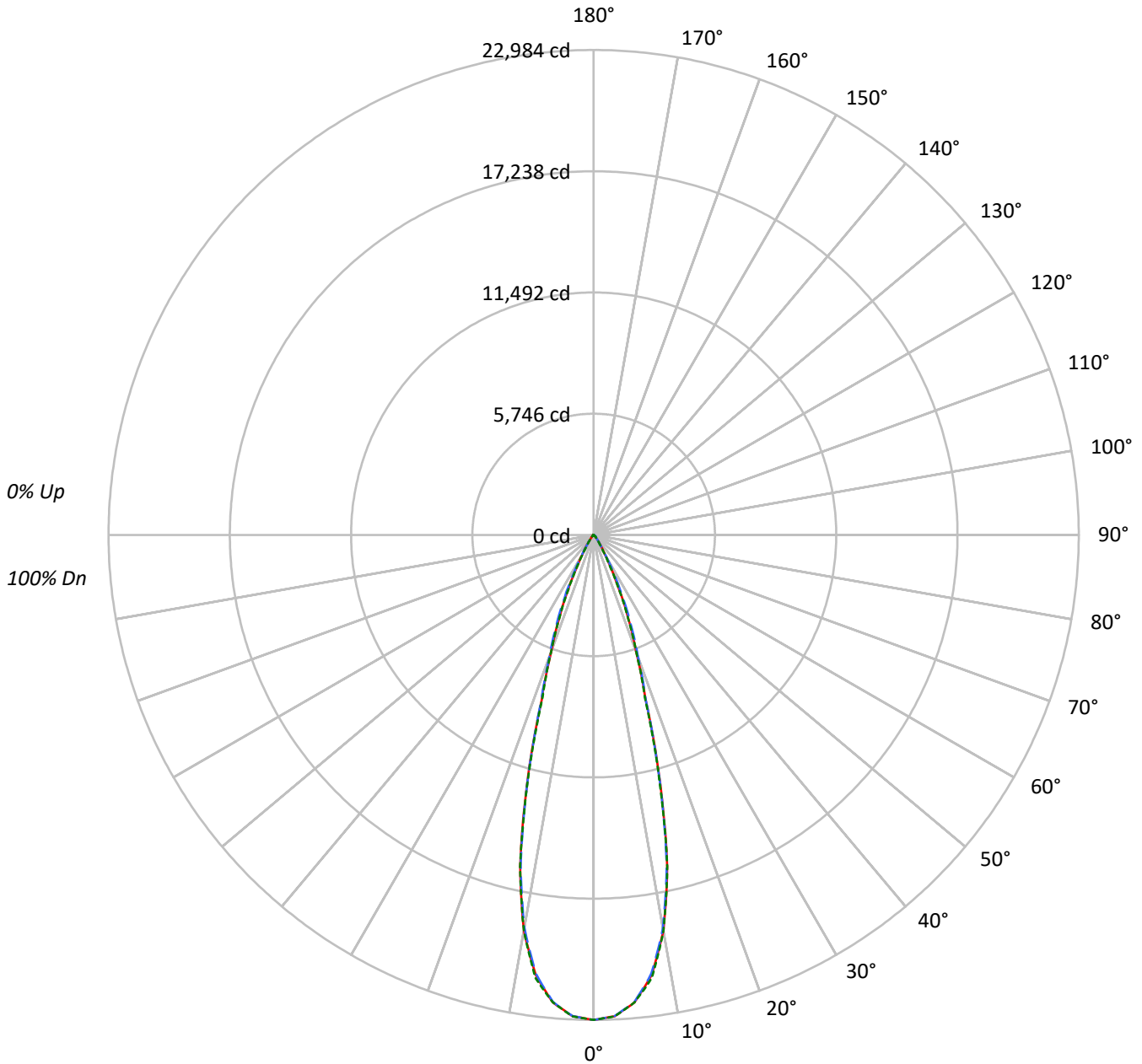
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1759250	1759250	1759250
5°	1708751	1706753	1708835
10°	1480032	1469601	1479682
15°	965646	960464	955638
20°	480174	498192	479530
25°	241874	272752	236925
30°	96843	105522	84372
35°	44918	43021	36059
40°	19395	21533	18265
45°	13683	16984	13802
50°	4704	12361	4978
55°	2709	5124	2856
60°	1898	2250	1898
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16984 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2021.1	28.3
10°-20°	3255.0	45.5
20°-30°	1406.6	19.7
30°-40°	320.6	4.5
40°-50°	110.1	1.5
50°-60°	26.9	0.4
60°-70°	7.0	0.1
70°-80°	0.7	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°	6682.6	93.5
0°-40°	7003.2	98.0
0°-60°	7140.1	99.9
0°-90°	7147.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7147.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22984	22984	22984	22984	22984	
5°	22239	22218	22213	22259	22240	2023
15°	12186	12039	12120	12081	12060	3263
25°	2864	2972	3230	2897	2805	1371
35°	481	491	460	457	386	326
45°	126	157	157	157	128	90
55°	20	21	38	23	21	20
65°	7	7	7	7	7	7
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°	22983.7	22983.7	22983.7	22983.7	22983.7
2.5°	22831.4	22815.6	22824.6	22835.9	22840.4
5°	22239.0	22217.5	22213.0	22259.3	22240.1
7.5°	21044.0	21013.5	20967.2	21072.2	21170.3
10°	19042.1	19008.3	18907.9	18957.5	19037.6
12.5°	16086.8	15977.3	15975.1	16133.1	16111.6
15°	12185.8	12039.1	12120.4	12080.9	12059.5
17.5°	8194.6	8138.2	8246.5	8213.8	8072.7
20°	5894.9	5909.6	6116.1	6012.2	5887.0
22.5°	4301.5	4354.6	4599.5	4332.0	4233.8
25°	2863.9	2972.3	3229.5	2896.7	2805.3
27.5°	1761.5	1811.1	2071.8	1738.9	1689.2
30°	1095.7	1070.9	1193.9	1024.6	954.6
32.5°	718.8	687.2	726.7	652.2	595.8
35°	480.7	490.9	460.4	457.0	385.9
37.5°	300.2	345.3	304.7	325.0	248.3
40°	194.1	250.5	215.5	238.1	182.8
42.5°	159.1	193.0	177.2	188.4	162.5
45°	126.4	156.9	156.9	156.9	127.5
47.5°	70.0	104.9	134.3	107.2	74.5
50°	39.5	53.0	103.8	55.3	41.8
52.5°	27.1	30.5	71.1	31.6	28.2
55°	20.3	21.4	38.4	22.6	21.4
57.5°	15.8	16.9	20.3	16.9	15.8
60°	12.4	12.4	14.7	13.5	12.4
62.5°	9.0	9.0	10.2	9.0	9.0
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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