

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: P753794

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753794
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: LD4D80BD010-EU4DR3070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5983.4 lumens
Efficiency: N/A
Efficacy: 75.8 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

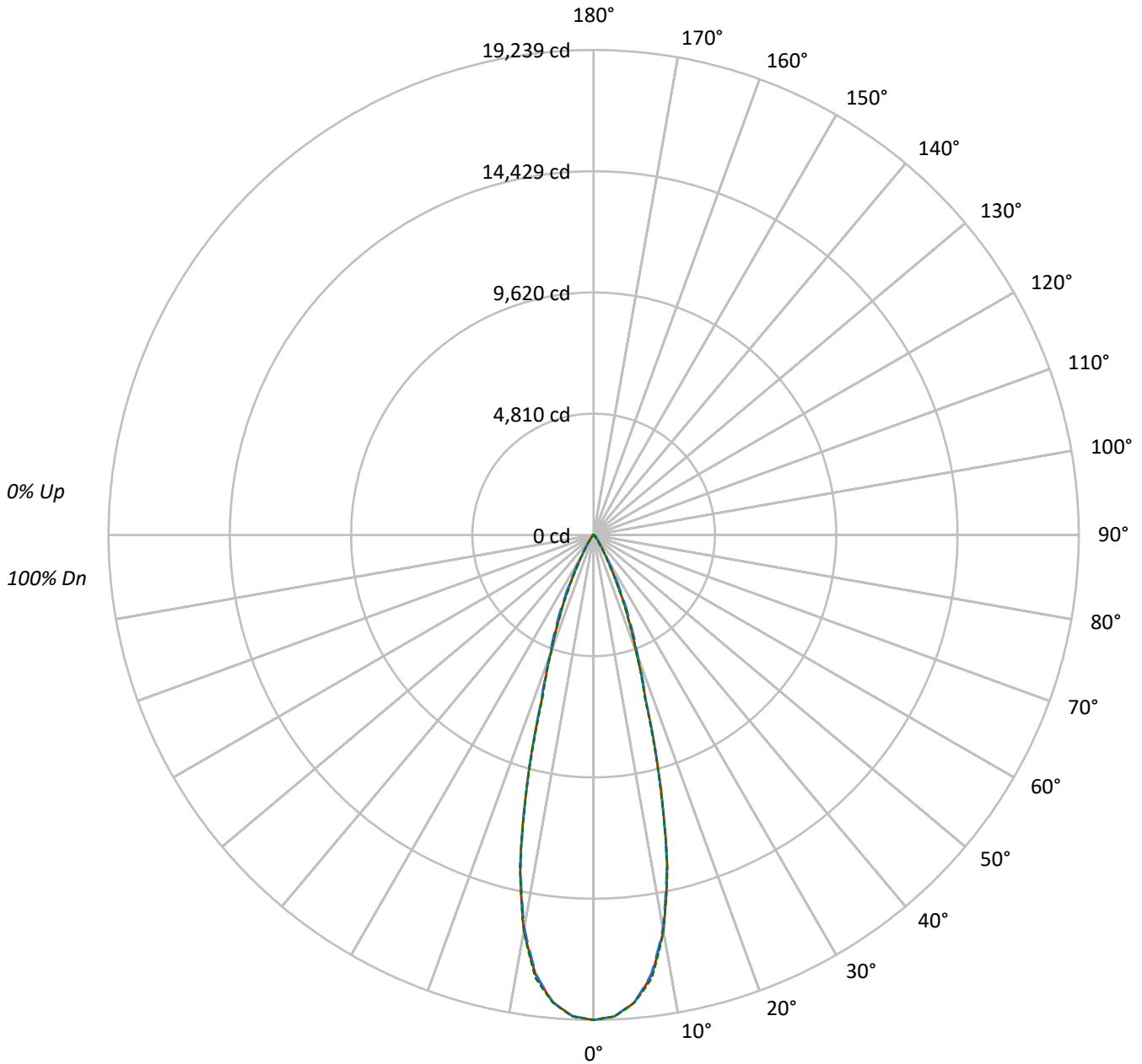
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	1472649	1472649	1472649
5°	1430375	1428708	1430444
10°	1238924	1230180	1238628
15°	808332	803989	799948
20°	401944	417029	401406
25°	202476	228319	198329
30°	81066	88332	70628
35°	37601	36013	30182
40°	16237	18026	15288
45°	11453	14213	11550
50°	3942	10348	4156
55°	2269	4284	2389
60°	1592	1883	1592
65°	1032	1032	1032
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1691.8	28.3
10°-20°	2724.7	45.5
20°-30°	1177.4	19.7
30°-40°	268.4	4.5
40°-50°	92.1	1.5
50°-60°	22.5	0.4
60°-70°	5.9	0.1
70°-80°	0.6	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°	5593.9	93.5
0°-40°	5862.3	98.0
0°-60°	5976.9	99.9
0°-90°	5983.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5983.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19239	19239	19239	19239	19239	
5°	18616	18598	18594	18633	18617	1693
15°	10201	10078	10146	10113	10095	2731
25°	2397	2488	2703	2425	2348	1148
35°	402	411	385	383	323	273
45°	106	131	131	131	107	75
55°	17	18	32	19	18	17
65°	6	6	6	6	6	6
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°	19239.4	19239.4	19239.4	19239.4	19239.4
2.5°	19111.9	19098.7	19106.2	19115.7	19119.4
5°	18616.0	18598.0	18594.3	18633.0	18616.9
7.5°	17615.7	17590.2	17551.4	17639.3	17721.5
10°	15940.0	15911.6	15827.5	15869.1	15936.2
12.5°	13466.1	13374.4	13372.6	13504.8	13486.9
15°	10200.6	10077.8	10145.8	10112.8	10094.8
17.5°	6859.6	6812.4	6903.1	6875.7	6757.6
20°	4934.5	4946.8	5119.7	5032.8	4927.9
22.5°	3600.8	3645.2	3850.1	3626.3	3544.1
25°	2397.4	2488.0	2703.4	2424.8	2348.3
27.5°	1474.5	1516.1	1734.3	1455.6	1414.1
30°	917.2	896.4	999.4	857.7	799.1
32.5°	601.7	575.3	608.3	546.0	498.7
35°	402.4	410.9	385.4	382.6	323.0
37.5°	251.3	289.0	255.0	272.0	207.8
40°	162.5	209.7	180.4	199.3	153.0
42.5°	133.2	161.5	148.3	157.7	136.0
45°	105.8	131.3	131.3	131.3	106.7
47.5°	58.6	87.8	112.4	89.7	62.3
50°	33.1	44.4	86.9	46.3	34.9
52.5°	22.7	25.5	59.5	26.4	23.6
55°	17.0	17.9	32.1	18.9	17.9
57.5°	13.2	14.2	17.0	14.2	13.2
60°	10.4	10.4	12.3	11.3	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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