

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P753837

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753837
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-EU4DR3070959050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7813.9 lumens
Efficiency: N/A
Efficacy: 99.0 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

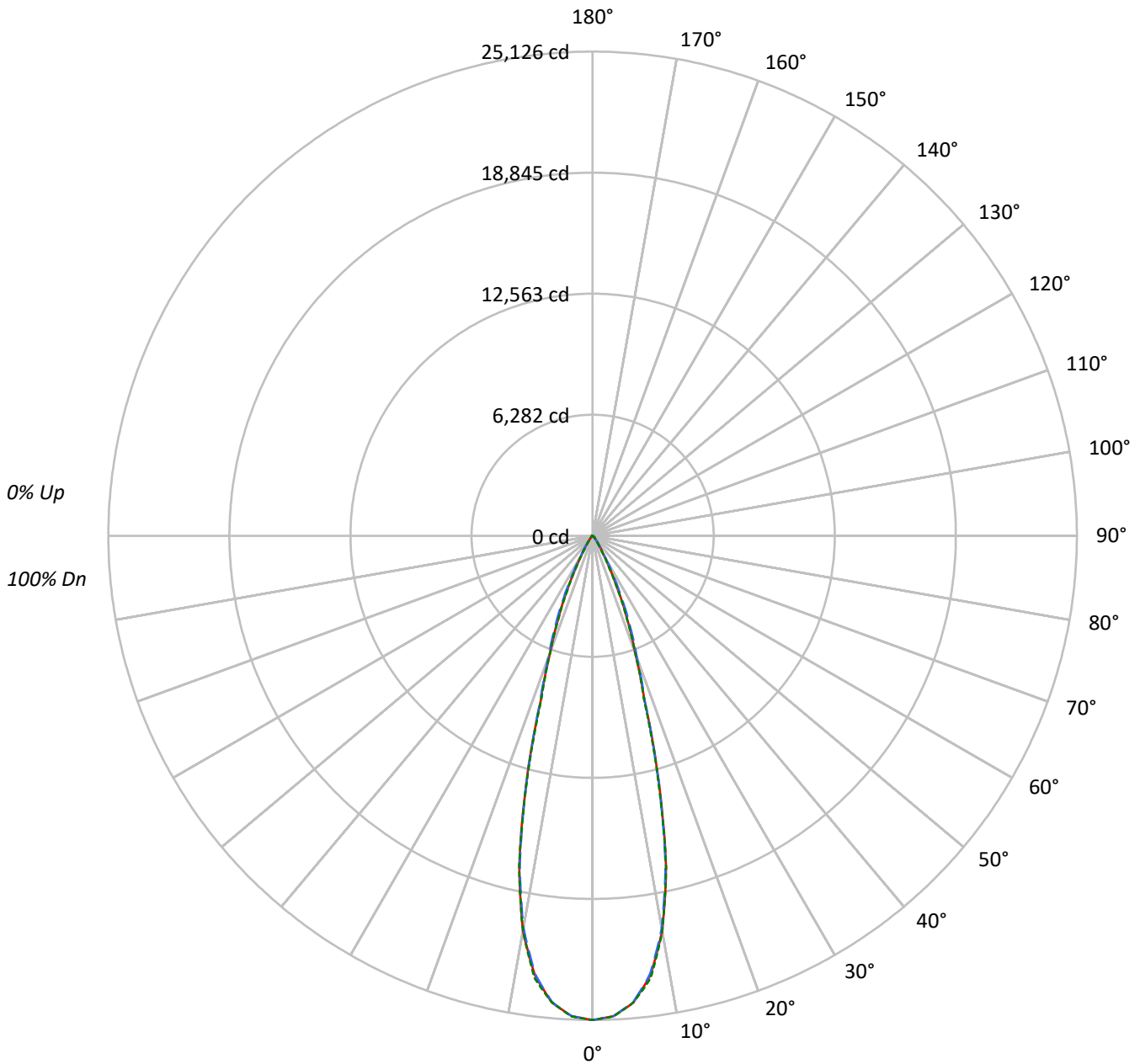
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	1923191	1923191	1923191
5°	1867985	1865803	1868078
10°	1617954	1606551	1617573
15°	1055635	1049969	1044692
20°	524917	544613	524217
25°	264416	298173	259002
30°	105867	115351	92238
35°	49104	47029	39423
40°	21203	23541	19964
45°	14960	18565	15090
50°	5144	13516	5430
55°	2963	5592	3123
60°	2082	2449	2082
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18565 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2209.4	28.3
10°-20°	3558.3	45.5
20°-30°	1537.6	19.7
30°-40°	350.5	4.5
40°-50°	120.3	1.5
50°-60°	29.4	0.4
60°-70°	7.6	0.1
70°-80°	0.8	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°	7305.3	93.5
0°-40°	7655.8	98.0
0°-60°	7805.5	99.9
0°-90°	7813.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7813.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25126	25126	25126	25126	25126	
5°	24311	24288	24283	24334	24313	2211
15°	13321	13161	13250	13207	13183	3567
25°	3131	3249	3530	3167	3067	1499
35°	526	537	503	500	422	356
45°	138	172	172	172	139	98
55°	22	23	42	25	23	22
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°	25125.5	25125.5	25125.5	25125.5	25125.5
2.5°	24959.0	24941.7	24951.6	24963.9	24968.9
5°	24311.4	24287.9	24283.0	24333.6	24312.6
7.5°	23005.0	22971.7	22921.1	23035.9	23143.2
10°	20816.6	20779.6	20669.9	20724.1	20811.7
12.5°	17585.9	17466.2	17463.8	17636.5	17613.0
15°	13321.4	13161.1	13249.9	13206.7	13183.3
17.5°	8958.3	8896.6	9015.0	8979.2	8825.0
20°	6444.2	6460.3	6686.0	6572.5	6435.6
22.5°	4702.4	4760.4	5028.1	4735.7	4628.4
25°	3130.8	3249.2	3530.5	3166.6	3066.7
27.5°	1925.6	1979.9	2264.9	1900.9	1846.7
30°	1197.8	1170.7	1305.1	1120.1	1043.6
32.5°	785.8	751.2	794.4	713.0	651.3
35°	525.5	536.6	503.3	499.6	421.9
37.5°	328.1	377.5	333.1	355.3	271.4
40°	212.2	273.9	235.6	260.3	199.8
42.5°	173.9	210.9	193.7	206.0	177.6
45°	138.2	171.5	171.5	171.5	139.4
47.5°	76.5	114.7	146.8	117.2	81.4
50°	43.2	58.0	113.5	60.4	45.6
52.5°	29.6	33.3	77.7	34.5	30.8
55°	22.2	23.4	41.9	24.7	23.4
57.5°	17.3	18.5	22.2	18.5	17.3
60°	13.6	13.6	16.0	14.8	13.6
62.5°	9.9	9.9	11.1	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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

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Scaled Data Report





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

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