

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: P753812

Luminaire Tested: LD4D80BD010-EU4DR3070959035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753812
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-EU4DR3070959035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7905.4 lumens
Efficiency: N/A
Efficacy: 100.2 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

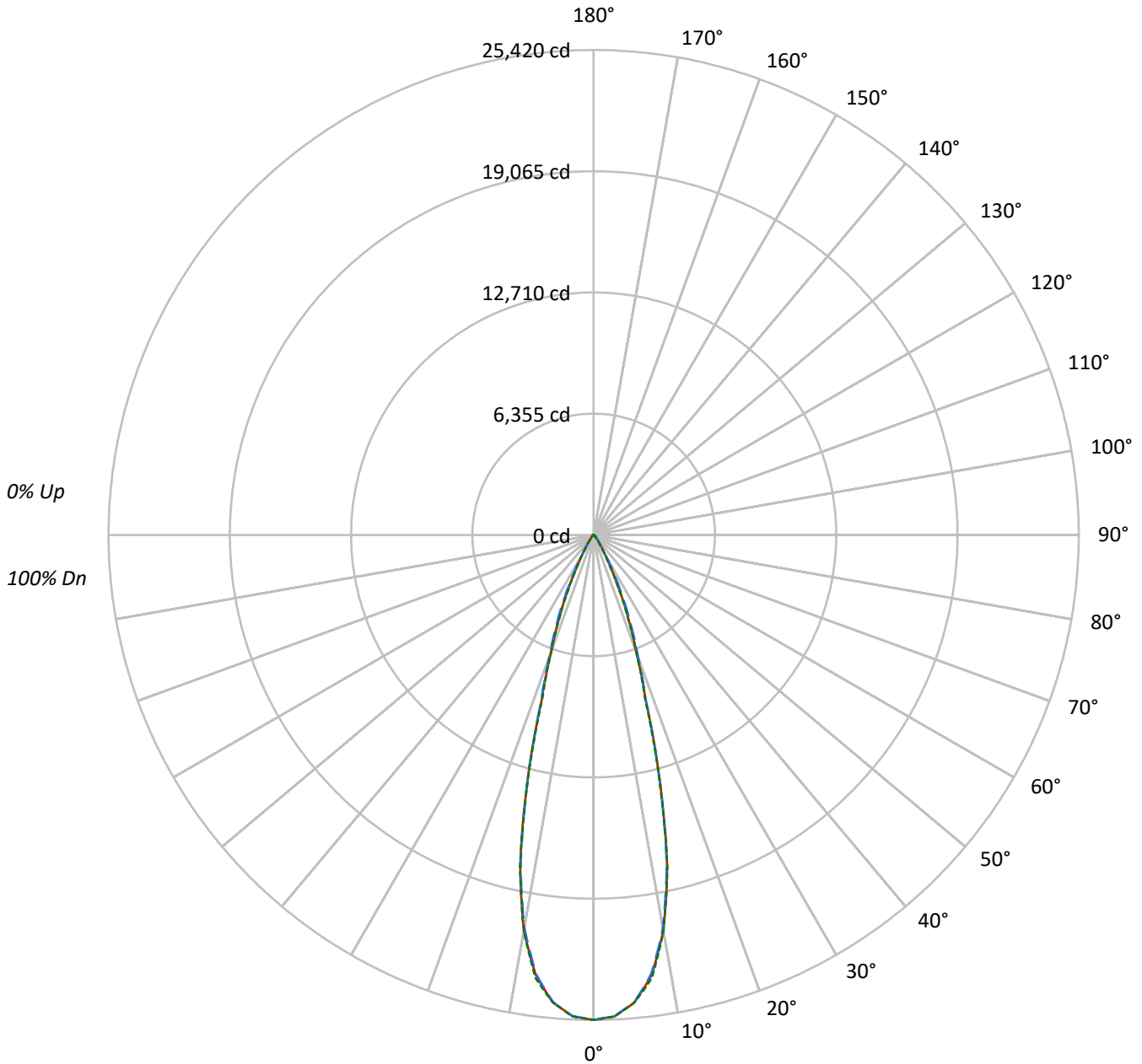
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1945718	1945718	1945718
5°	1889861	1887655	1889960
10°	1636911	1625368	1636522
15°	1068005	1062268	1056927
20°	531067	550991	530359
25°	267515	301669	262034
30°	107105	116703	93317
35°	49683	47581	39881
40°	21453	23821	20204
45°	15133	18781	15263
50°	5204	13670	5502
55°	3003	5658	3163
60°	2097	2480	2097
65°	1358	1358	1358
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: 18781 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2235.3	28.3
10°-20°	3600.0	45.5
20°-30°	1555.6	19.7
30°-40°	354.6	4.5
40°-50°	121.7	1.5
50°-60°	29.7	0.4
60°-70°	7.7	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°	7390.9	93.5
0°-40°	7745.5	98.0
0°-60°	7896.9	99.9
0°-90°	7905.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7905.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25420	25420	25420	25420	25420	
5°	24596	24572	24567	24619	24597	2237
15°	13478	13315	13405	13361	13338	3609
25°	3168	3287	3572	3204	3103	1516
35°	532	543	509	506	427	361
45°	140	174	174	174	141	99
55°	22	24	42	25	24	22
65°	8	8	8	8	8	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°	25419.8	25419.8	25419.8	25419.8	25419.8
2.5°	25251.4	25233.9	25243.9	25256.3	25261.3
5°	24596.1	24572.4	24567.4	24618.6	24597.4
7.5°	23274.5	23240.8	23189.6	23305.7	23414.3
10°	21060.5	21023.0	20912.0	20966.9	21055.5
12.5°	17791.9	17670.8	17668.3	17843.1	17819.3
15°	13477.5	13315.2	13405.1	13361.4	13337.7
17.5°	9063.2	9000.8	9120.6	9084.4	8928.4
20°	6519.7	6535.9	6764.3	6649.5	6511.0
22.5°	4757.5	4816.1	5087.0	4791.2	4682.6
25°	3167.5	3287.3	3571.9	3203.7	3102.6
27.5°	1948.2	2003.1	2291.4	1923.2	1868.3
30°	1211.8	1184.4	1320.4	1133.2	1055.8
32.5°	795.0	760.0	803.7	721.4	659.0
35°	531.7	542.9	509.2	505.5	426.8
37.5°	332.0	381.9	337.0	359.4	274.6
40°	214.7	277.1	238.4	263.3	202.2
42.5°	176.0	213.4	195.9	208.4	179.7
45°	139.8	173.5	173.5	173.5	141.0
47.5°	77.4	116.1	148.5	118.6	82.4
50°	43.7	58.7	114.8	61.2	46.2
52.5°	30.0	33.7	78.6	34.9	31.2
55°	22.5	23.7	42.4	25.0	23.7
57.5°	17.5	18.7	22.5	18.7	17.5
60°	13.7	13.7	16.2	15.0	13.7
62.5°	10.0	10.0	11.2	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.7	5.0	5.0	5.0	5.0
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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