

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: P753826

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753826
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-EU4DR3070959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8688.8 lumens
Efficiency: N/A
Efficacy: 110.1 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

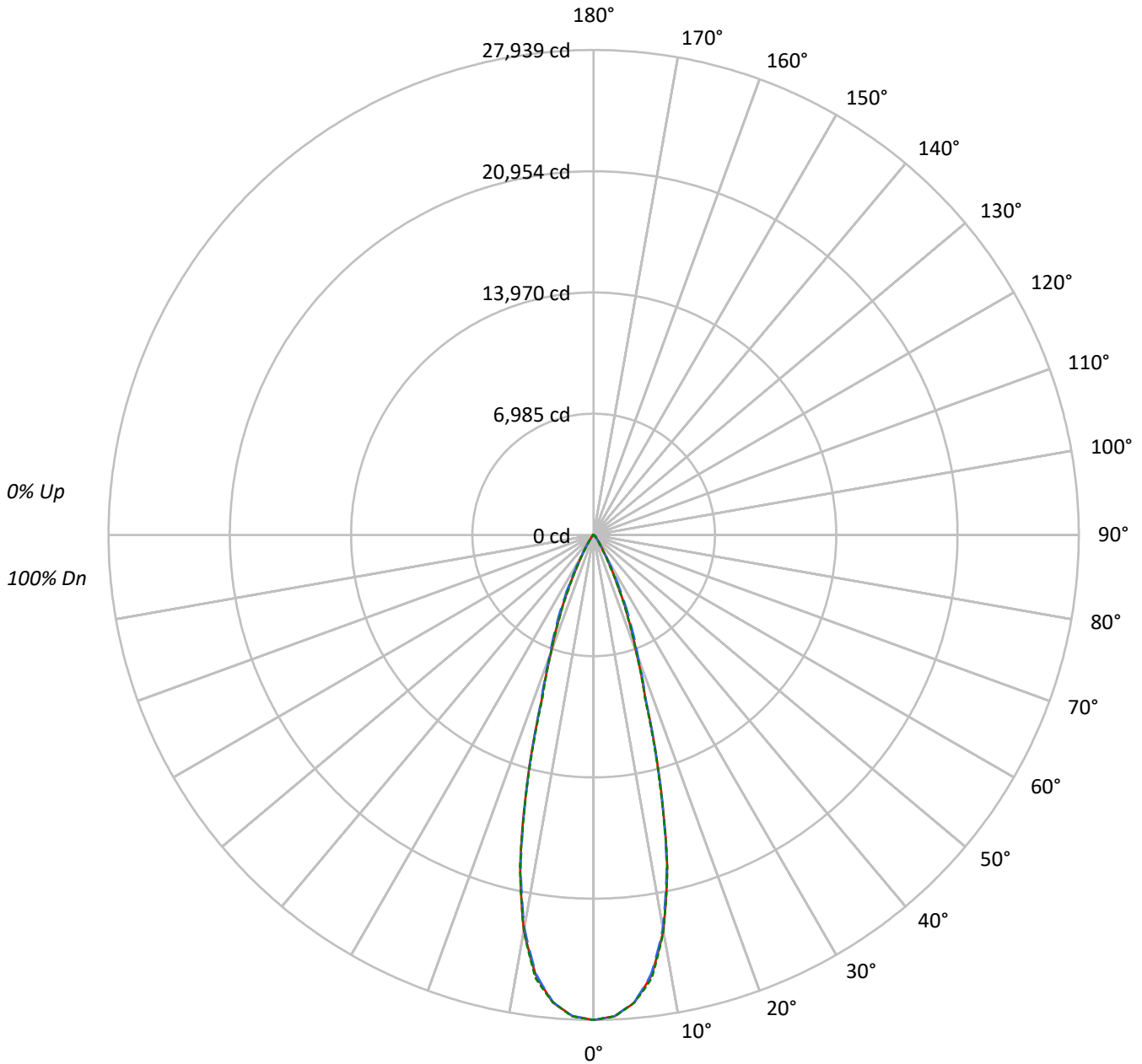
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2138523	2138523	2138523
5°	2077132	2074704	2077232
10°	1799105	1786421	1798686
15°	1173827	1167527	1161655
20°	583688	605591	582906
25°	294026	331559	287996
30°	117720	128273	102570
35°	54598	52300	43834
40°	23571	26179	22202
45°	16627	20643	16779
50°	5716	15028	6049
55°	3296	6219	3483
60°	2312	2725	2312
65°	1485	1485	1485
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2456.8	28.3
10°-20°	3956.7	45.5
20°-30°	1709.8	19.7
30°-40°	389.7	4.5
40°-50°	133.8	1.5
50°-60°	32.7	0.4
60°-70°	8.5	0.1
70°-80°	0.9	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°	8123.2	93.5
0°-40°	8512.9	98.0
0°-60°	8679.4	99.9
0°-90°	8688.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8688.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27939	27939	27939	27939	27939	
5°	27033	27007	27002	27058	27035	2459
15°	14813	14635	14733	14685	14659	3966
25°	3481	3613	3926	3521	3410	1666
35°	584	597	560	556	469	396
45°	154	191	191	191	155	109
55°	25	26	47	27	26	24
65°	8	8	8	8	8	8
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°	27938.7	27938.7	27938.7	27938.7	27938.7
2.5°	27753.5	27734.3	27745.3	27759.0	27764.5
5°	27033.4	27007.3	27001.8	27058.0	27034.7
7.5°	25580.7	25543.7	25487.5	25615.0	25734.4
10°	23147.3	23106.2	22984.1	23044.5	23141.9
12.5°	19554.9	19421.8	19419.1	19611.1	19585.1
15°	14812.9	14634.6	14733.4	14685.4	14659.3
17.5°	9961.2	9892.7	10024.3	9984.6	9813.1
20°	7165.7	7183.6	7434.6	7308.4	7156.1
22.5°	5228.9	5293.4	5591.0	5265.9	5146.6
25°	3481.4	3613.0	3925.8	3521.1	3410.0
27.5°	2141.2	2201.6	2518.4	2113.8	2053.4
30°	1331.9	1301.7	1451.3	1245.5	1160.5
32.5°	873.8	835.4	883.4	792.8	724.3
35°	584.3	596.7	559.7	555.5	469.1
37.5°	364.9	419.7	370.4	395.0	301.8
40°	235.9	304.5	262.0	289.4	222.2
42.5°	193.4	234.6	215.4	229.1	197.5
45°	153.6	190.7	190.7	190.7	155.0
47.5°	85.0	127.6	163.2	130.3	90.5
50°	48.0	64.5	126.2	67.2	50.8
52.5°	32.9	37.0	86.4	38.4	34.3
55°	24.7	26.1	46.6	27.4	26.1
57.5°	19.2	20.6	24.7	20.6	19.2
60°	15.1	15.1	17.8	16.5	15.1
62.5°	11.0	11.0	12.3	11.0	11.0
65°	8.2	8.2	8.2	8.2	8.2
67.5°	4.1	5.5	5.5	5.5	5.5
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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