

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: P753768

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753768
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-EU4DR3070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5127.1 lumens
Efficiency: N/A
Efficacy: 65.0 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

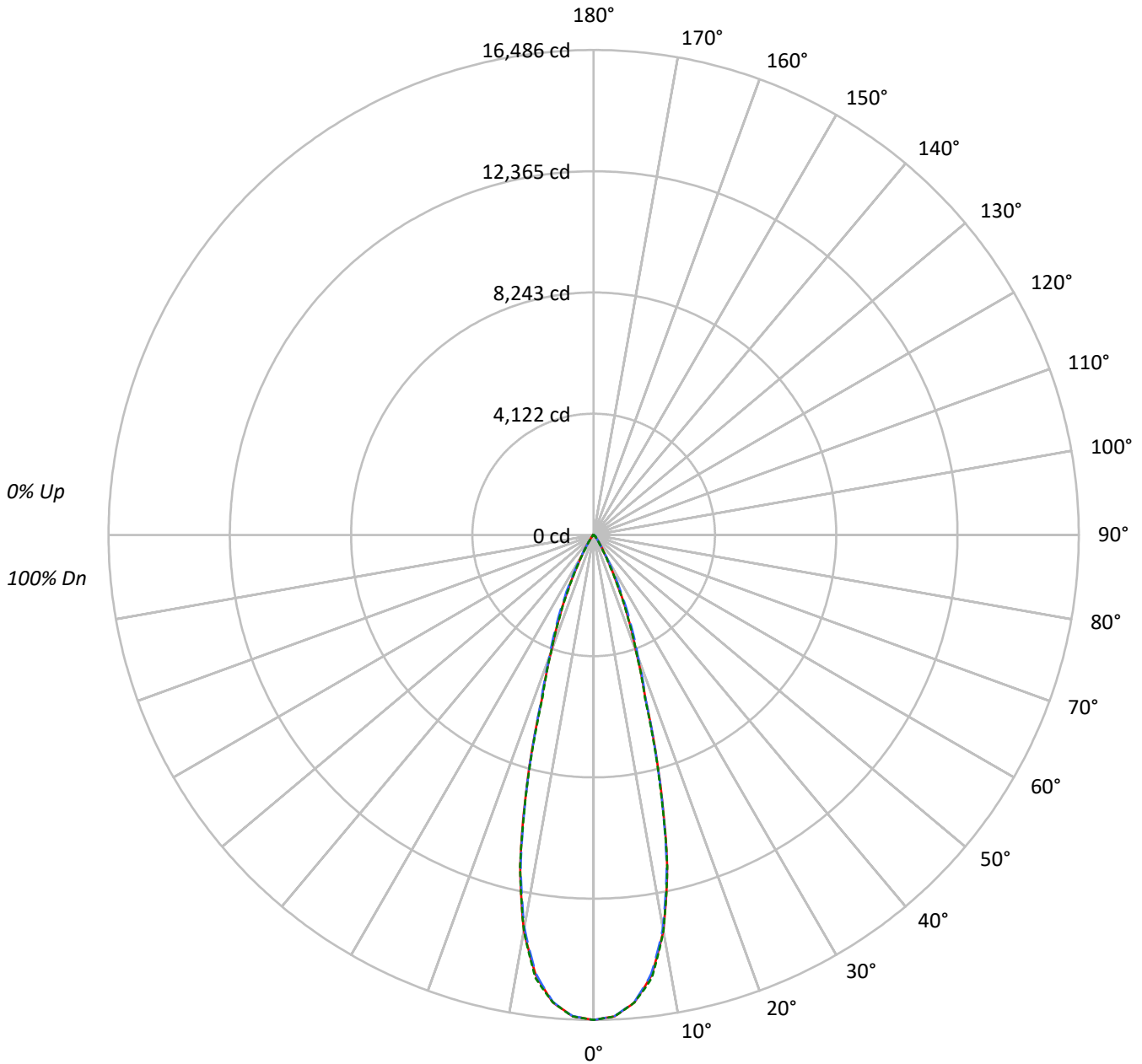
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1261894	1261894	1261894
5°	1225669	1224240	1225730
10°	1061619	1054127	1061363
15°	692652	688936	685465
20°	344428	357347	343963
25°	173499	195643	169943
30°	69462	75693	60526
35°	32219	30855	25865
40°	13909	15448	13100
45°	9818	12178	9905
50°	3370	8871	3561
55°	1948	3670	2055
60°	1362	1607	1362
65°	887	887	887
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 12178 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1449.7	28.3
10°-20°	2334.8	45.5
20°-30°	1008.9	19.7
30°-40°	229.9	4.5
40°-50°	79.0	1.5
50°-60°	19.3	0.4
60°-70°	5.0	0.1
70°-80°	0.5	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°	4793.4	93.5
0°-40°	5023.3	98.0
0°-60°	5121.5	99.9
0°-90°	5127.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5127.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16486	16486	16486	16486	16486	
5°	15952	15936	15933	15966	15953	1451
15°	8741	8636	8694	8666	8650	2340
25°	2054	2132	2316	2078	2012	983
35°	345	352	330	328	277	234
45°	91	112	112	112	92	64
55°	15	15	28	16	15	14
65°	5	5	5	5	5	5
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°	16486.0	16486.0	16486.0	16486.0	16486.0
2.5°	16376.8	16365.4	16371.9	16380.0	16383.2
5°	15951.8	15936.4	15933.2	15966.4	15952.6
7.5°	15094.7	15072.8	15039.6	15114.9	15185.3
10°	13658.8	13634.5	13562.4	13598.1	13655.5
12.5°	11538.9	11460.4	11458.8	11572.1	11556.7
15°	8740.8	8635.6	8693.9	8665.5	8650.1
17.5°	5877.9	5837.5	5915.2	5891.7	5790.5
20°	4228.4	4238.9	4387.0	4312.5	4222.7
22.5°	3085.5	3123.5	3299.1	3107.3	3036.9
25°	2054.3	2132.0	2316.5	2077.8	2012.2
27.5°	1263.5	1299.1	1486.1	1247.3	1211.7
30°	785.9	768.1	856.4	734.9	684.8
32.5°	515.6	492.9	521.3	467.8	427.4
35°	344.8	352.1	330.2	327.8	276.8
37.5°	215.3	247.7	218.5	233.1	178.1
40°	139.2	179.7	154.6	170.8	131.1
42.5°	114.1	138.4	127.1	135.2	116.6
45°	90.7	112.5	112.5	112.5	91.5
47.5°	50.2	75.3	96.3	76.9	53.4
50°	28.3	38.0	74.5	39.7	29.9
52.5°	19.4	21.9	51.0	22.7	20.2
55°	14.6	15.4	27.5	16.2	15.4
57.5°	11.3	12.1	14.6	12.1	11.3
60°	8.9	8.9	10.5	9.7	8.9
62.5°	6.5	6.5	7.3	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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