

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: P753824

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753824
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-EU4DR3070959040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7758.5 lumens
Efficiency: N/A
Efficacy: 98.3 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

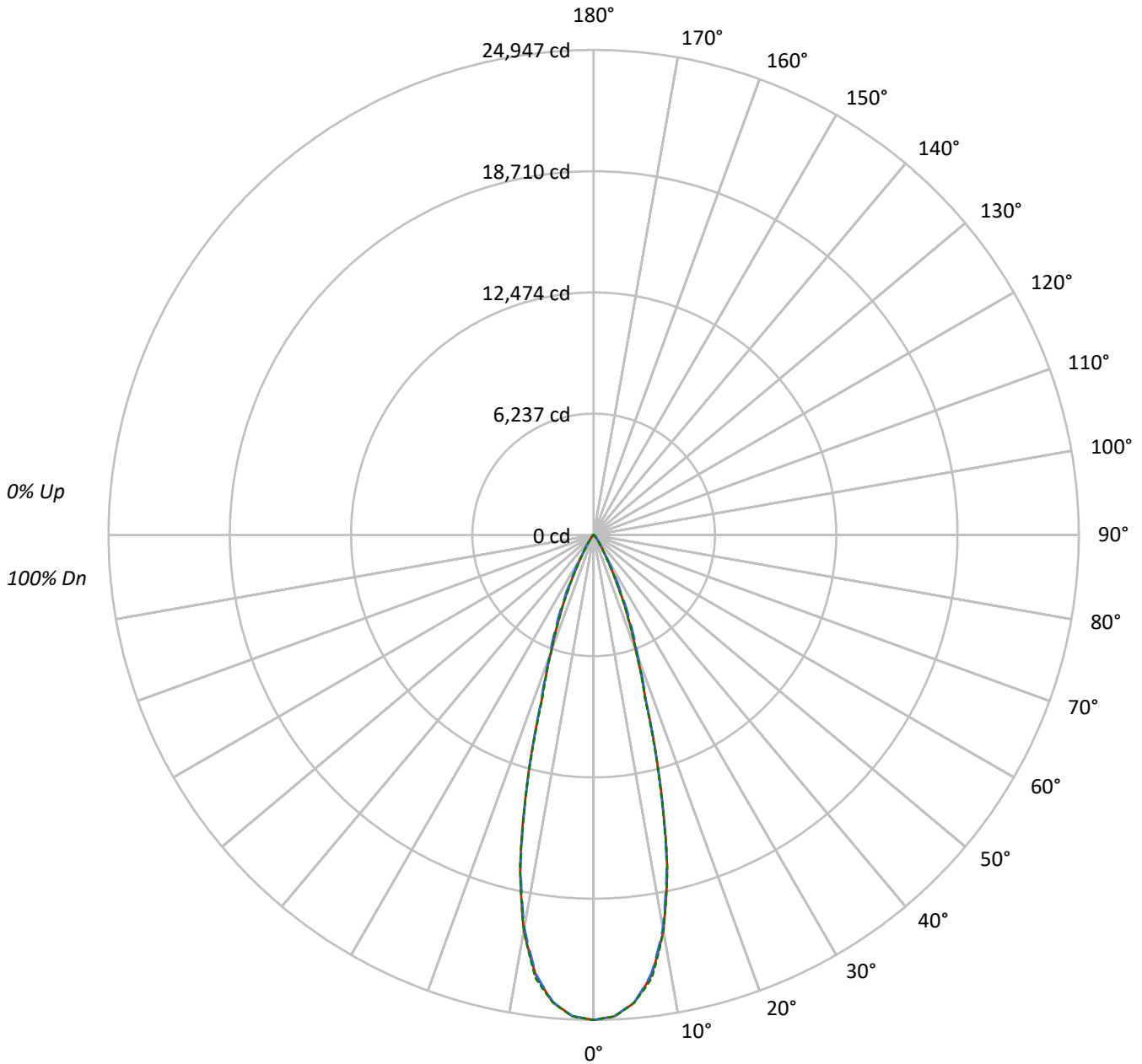


Downlight

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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°	1909551	1909551	1909551
5°	1854739	1852572	1854831
10°	1606482	1595157	1606101
15°	1048147	1042520	1037282
20°	521195	540752	520494
25°	262541	296062	257161
30°	105116	114538	91584
35°	48758	46693	39143
40°	21053	23371	19824
45°	14852	18435	14982
50°	5109	13420	5394
55°	2936	5551	3109
60°	2067	2434	2067
65°	1322	1322	1322
70°	828	537	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: 18435 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2193.7	28.3
10°-20°	3533.0	45.5
20°-30°	1526.7	19.7
30°-40°	348.0	4.5
40°-50°	119.5	1.5
50°-60°	29.2	0.4
60°-70°	7.5	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°	7253.5	93.5
0°-40°	7601.5	98.0
0°-60°	7750.1	99.9
0°-90°	7758.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7758.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24947	24947	24947	24947	24947	
5°	24139	24116	24111	24161	24140	2196
15°	13227	13068	13156	13113	13090	3542
25°	3109	3226	3506	3144	3045	1488
35°	522	533	500	496	419	354
45°	137	170	170	170	138	97
55°	22	23	42	24	23	21
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°	24947.3	24947.3	24947.3	24947.3	24947.3
2.5°	24782.0	24764.8	24774.6	24786.9	24791.8
5°	24139.0	24115.7	24110.8	24161.0	24140.2
7.5°	22841.9	22808.8	22758.6	22872.5	22979.0
10°	20669.0	20632.3	20523.3	20577.2	20664.1
12.5°	17461.2	17342.4	17339.9	17511.4	17488.1
15°	13226.9	13067.7	13155.9	13113.0	13089.8
17.5°	8894.7	8833.5	8951.1	8915.5	8762.4
20°	6398.5	6414.4	6638.6	6525.9	6389.9
22.5°	4669.1	4726.6	4992.4	4702.1	4595.6
25°	3108.6	3226.2	3505.5	3144.1	3044.9
27.5°	1912.0	1965.9	2248.8	1887.5	1833.6
30°	1189.3	1162.4	1295.9	1112.1	1036.2
32.5°	780.2	745.9	788.8	708.0	646.7
35°	521.8	532.8	499.7	496.1	418.9
37.5°	325.8	374.8	330.7	352.8	269.5
40°	210.7	271.9	233.9	258.4	198.4
42.5°	172.7	209.4	192.3	204.5	176.4
45°	137.2	170.3	170.3	170.3	138.4
47.5°	75.9	113.9	145.8	116.4	80.8
50°	42.9	57.6	112.7	60.0	45.3
52.5°	29.4	33.1	77.2	34.3	30.6
55°	22.0	23.3	41.6	24.5	23.3
57.5°	17.1	18.4	22.0	18.4	17.1
60°	13.5	13.5	15.9	14.7	13.5
62.5°	9.8	9.8	11.0	9.8	9.8
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.4	2.4	2.4	3.7
72.5°	2.4	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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