

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: P753838

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753838
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-EU4DR3070959050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8334.1 lumens
Efficiency: N/A
Efficacy: 105.6 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

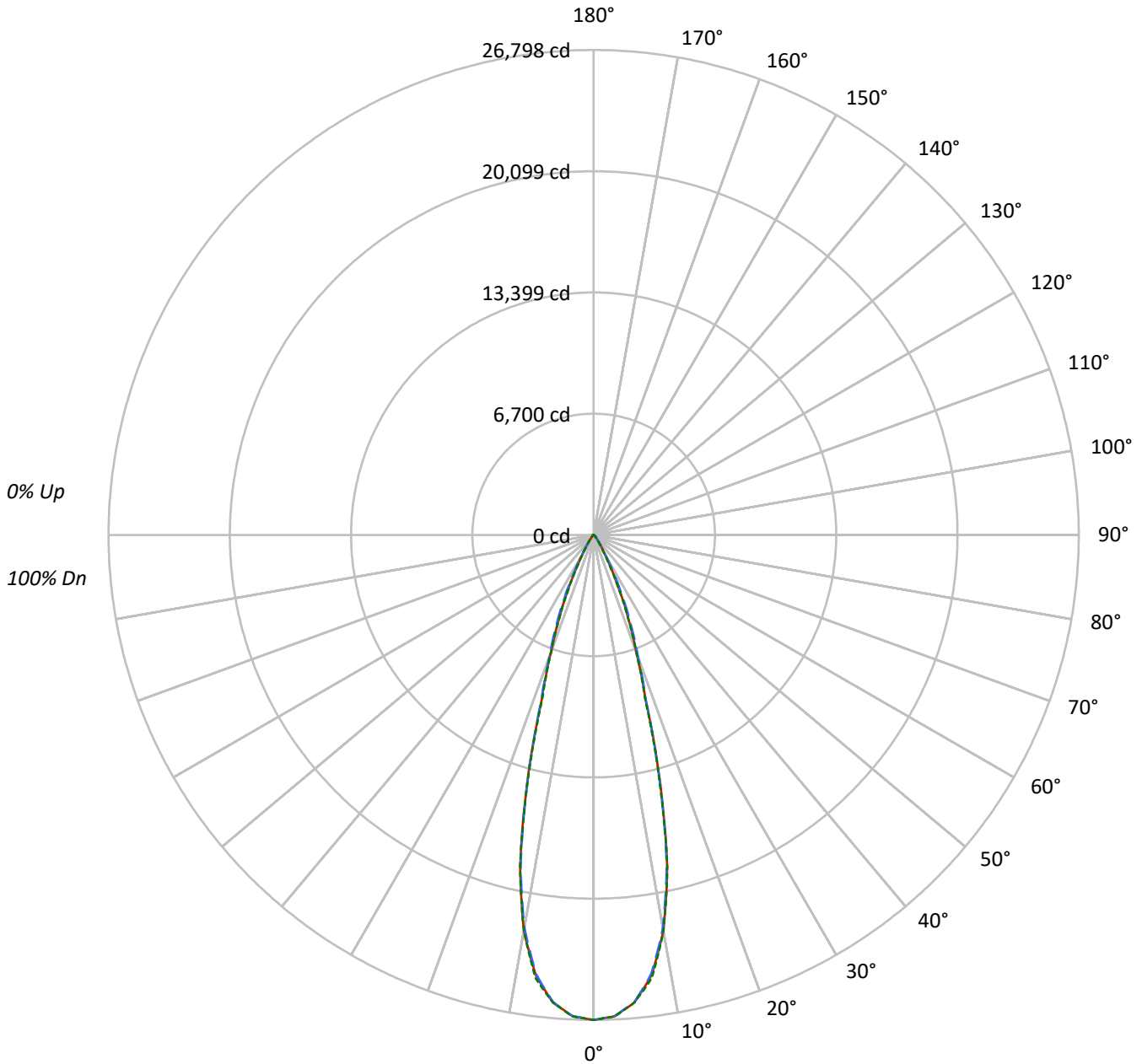


Downlight

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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°	2051233	2051233	2051233
5°	1992352	1990024	1992452
10°	1725679	1713508	1725267
15°	1125916	1119870	1114244
20°	559870	580869	559112
25°	282025	318029	276240
30°	112920	123032	98381
35°	52374	50160	42049
40°	22612	25110	21293
45°	15956	19799	16097
50°	5478	14409	5799
55°	3163	5965	3336
60°	2220	2618	2220
65°	1431	1431	1431
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19799 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2356.5	28.3
10°-20°	3795.2	45.5
20°-30°	1640.0	19.7
30°-40°	373.8	4.5
40°-50°	128.4	1.5
50°-60°	31.3	0.4
60°-70°	8.1	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°	7791.7	93.5
0°-40°	8165.5	98.0
0°-60°	8325.2	99.9
0°-90°	8334.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8334.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26798	26798	26798	26798	26798	
5°	25930	25905	25900	25954	25931	2358
15°	14208	14037	14132	14086	14061	3804
25°	3339	3466	3766	3377	3271	1598
35°	560	572	537	533	450	380
45°	147	183	183	183	149	105
55°	24	25	45	26	25	23
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°	26798.3	26798.3	26798.3	26798.3	26798.3
2.5°	26620.7	26602.3	26612.8	26626.0	26631.2
5°	25930.0	25905.0	25899.7	25953.6	25931.3
7.5°	24536.6	24501.1	24447.2	24569.5	24684.0
10°	22202.6	22163.1	22046.0	22103.9	22197.3
12.5°	18756.7	18629.1	18626.5	18810.7	18785.7
15°	14208.3	14037.3	14132.0	14086.0	14061.0
17.5°	9554.7	9488.9	9615.2	9577.0	9412.6
20°	6873.3	6890.4	7131.1	7010.1	6864.0
22.5°	5015.5	5077.3	5362.8	5051.0	4936.5
25°	3339.3	3465.6	3765.6	3377.4	3270.8
27.5°	2053.8	2111.7	2415.6	2027.5	1969.6
30°	1277.6	1248.6	1392.0	1194.7	1113.1
32.5°	838.1	801.3	847.3	760.5	694.7
35°	560.5	572.3	536.8	532.9	450.0
37.5°	350.0	402.6	355.2	378.9	289.5
40°	226.3	292.1	251.3	277.6	213.1
42.5°	185.5	225.0	206.6	219.7	189.5
45°	147.4	182.9	182.9	182.9	148.7
47.5°	81.6	122.4	156.6	125.0	86.8
50°	46.0	61.8	121.0	64.5	48.7
52.5°	31.6	35.5	82.9	36.8	32.9
55°	23.7	25.0	44.7	26.3	25.0
57.5°	18.4	19.7	23.7	19.7	18.4
60°	14.5	14.5	17.1	15.8	14.5
62.5°	10.5	10.5	11.8	10.5	10.5
65°	7.9	7.9	7.9	7.9	7.9
67.5°	3.9	5.3	5.3	5.3	5.3
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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