

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: P753787

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753787
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-EU4DR3070959027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7973.3 lumens
Efficiency: N/A
Efficacy: 101.1 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

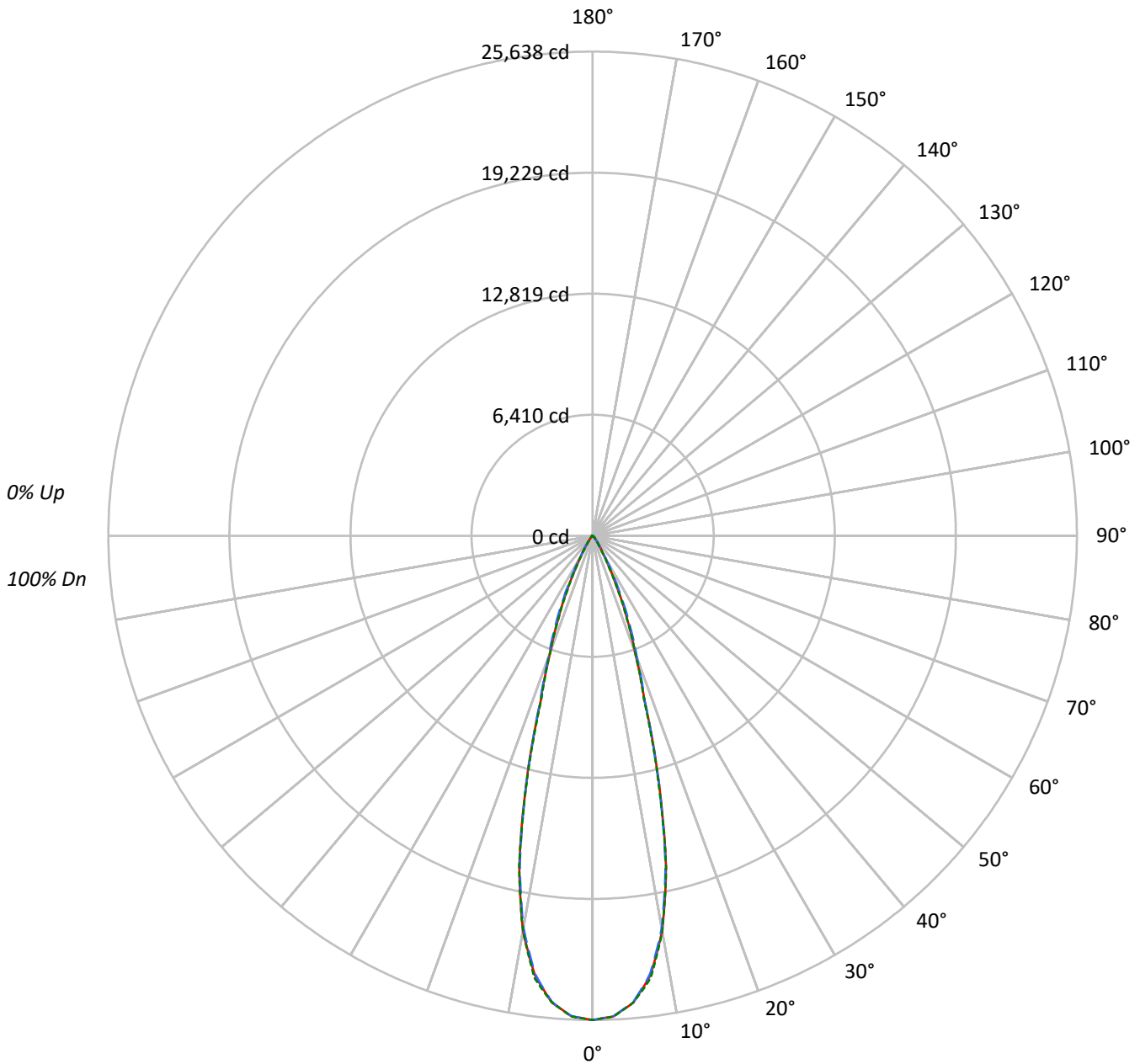


Downlight

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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	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°	1962404	1962404	1962404
5°	1906073	1903845	1906165
10°	1650948	1639304	1650559
15°	1077158	1071373	1065992
20°	535621	555716	534904
25°	269813	304254	264281
30°	108024	117702	94121
35°	50104	47992	40227
40°	21633	24021	20374
45°	15263	18944	15393
50°	5251	13790	5549
55°	3029	5712	3189
60°	2113	2511	2113
65°	1376	1376	1376
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18944 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2254.5	28.3
10°-20°	3630.8	45.5
20°-30°	1569.0	19.7
30°-40°	357.6	4.5
40°-50°	122.8	1.5
50°-60°	30.0	0.4
60°-70°	7.8	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°	7454.3	93.5
0°-40°	7811.9	98.0
0°-60°	7964.7	99.9
0°-90°	7973.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7973.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25638	25638	25638	25638	25638	
5°	24807	24783	24778	24830	24808	2256
15°	13593	13429	13520	13476	13452	3640
25°	3195	3316	3602	3231	3129	1529
35°	536	548	514	510	430	364
45°	141	175	175	175	142	100
55°	23	24	43	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°	25637.8	25637.8	25637.8	25637.8	25637.8
2.5°	25467.9	25450.3	25460.4	25472.9	25478.0
5°	24807.1	24783.2	24778.1	24829.7	24808.3
7.5°	23474.1	23440.1	23388.5	23505.6	23615.1
10°	21241.1	21203.3	21091.3	21146.7	21236.1
12.5°	17944.5	17822.4	17819.9	17996.1	17972.2
15°	13593.0	13429.4	13520.0	13476.0	13452.1
17.5°	9140.9	9078.0	9198.8	9162.3	9005.0
20°	6575.6	6592.0	6822.3	6706.5	6566.8
22.5°	4798.3	4857.4	5130.6	4832.3	4722.8
25°	3194.7	3315.5	3602.5	3231.2	3129.2
27.5°	1964.9	2020.3	2311.0	1939.7	1884.3
30°	1222.2	1194.5	1331.7	1142.9	1064.9
32.5°	801.8	766.6	810.6	727.5	664.6
35°	536.2	547.5	513.6	509.8	430.5
37.5°	334.8	385.2	339.9	362.5	276.9
40°	216.5	279.4	240.4	265.6	203.9
42.5°	177.5	215.2	197.6	210.2	181.3
45°	141.0	175.0	175.0	175.0	142.2
47.5°	78.0	117.1	149.8	119.6	83.1
50°	44.1	59.2	115.8	61.7	46.6
52.5°	30.2	34.0	79.3	35.2	31.5
55°	22.7	23.9	42.8	25.2	23.9
57.5°	17.6	18.9	22.7	18.9	17.6
60°	13.8	13.8	16.4	15.1	13.8
62.5°	10.1	10.1	11.3	10.1	10.1
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.0	5.0	5.0	5.0
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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