

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: P753786

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753786
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-EU4DR3070959027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 7593.6 lumens
Efficiency: N/A
Efficacy: 96.2 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

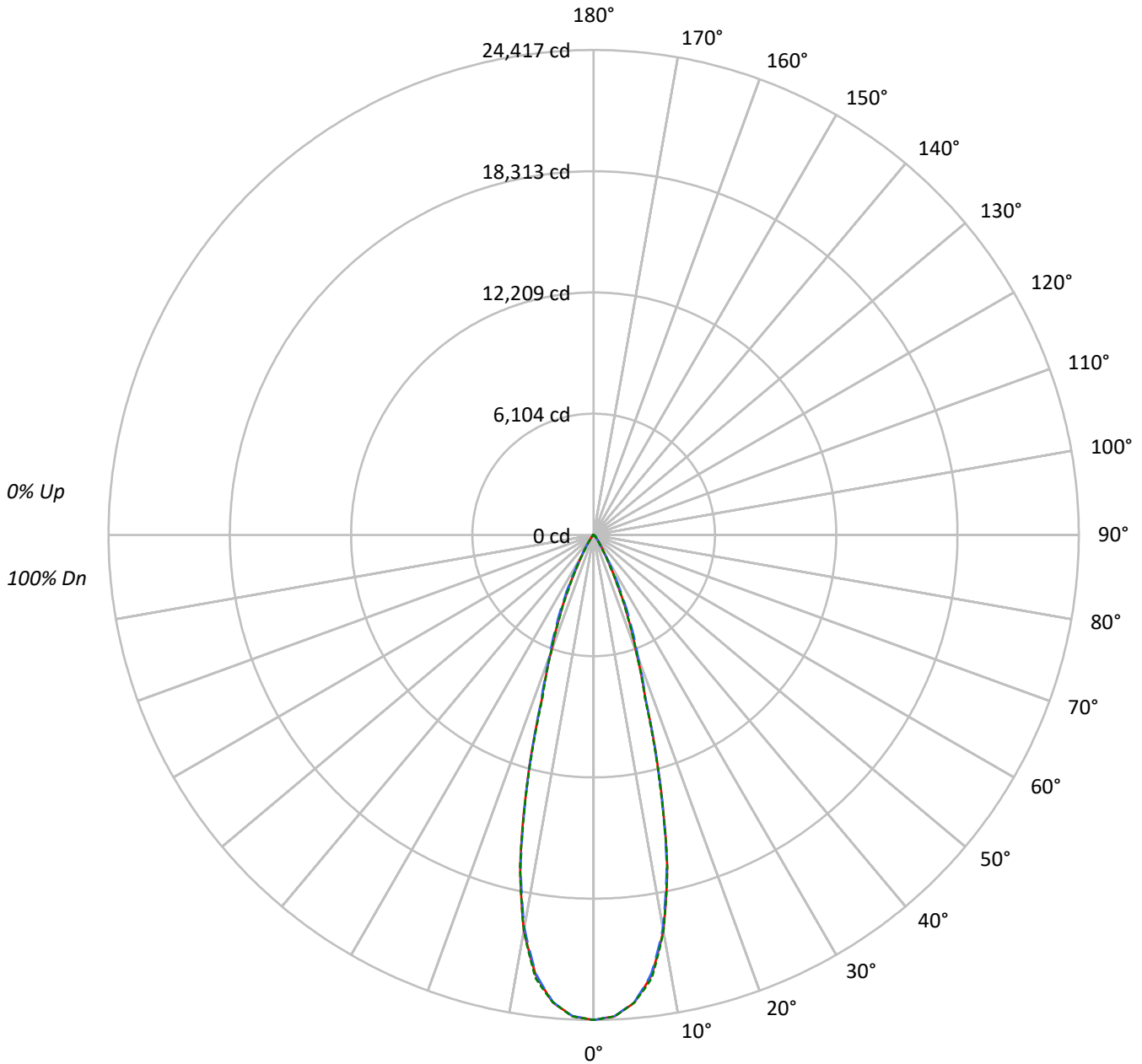


Downlight

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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°	1868960	1868960	1868960
5°	1815307	1813186	1815399
10°	1572330	1561246	1571956
15°	1025871	1020356	1015229
20°	510117	529259	509433
25°	256958	289761	251697
30°	102880	112098	89640
35°	47721	45703	38311
40°	20604	22882	19405
45°	14538	18034	14668
50°	5001	13135	5287
55°	2883	5445	3043
60°	2021	2388	2021
65°	1304	1304	1304
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2147.1	28.3
10°-20°	3457.9	45.5
20°-30°	1494.3	19.7
30°-40°	340.6	4.5
40°-50°	116.9	1.5
50°-60°	28.6	0.4
60°-70°	7.4	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°	7099.3	93.5
0°-40°	7439.9	98.0
0°-60°	7585.4	99.9
0°-90°	7593.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7593.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24417	24417	24417	24417	24417	
5°	23626	23603	23598	23647	23627	2149
15°	12946	12790	12876	12834	12812	3466
25°	3042	3158	3431	3077	2980	1456
35°	511	522	489	486	410	346
45°	134	167	167	167	136	95
55°	22	23	41	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°	24417.0	24417.0	24417.0	24417.0	24417.0
2.5°	24255.2	24238.4	24248.0	24260.0	24264.7
5°	23625.8	23603.0	23598.2	23647.4	23627.0
7.5°	22356.3	22323.9	22274.8	22386.2	22490.5
10°	20229.6	20193.6	20087.0	20139.7	20224.8
12.5°	17090.0	16973.7	16971.3	17139.1	17116.4
15°	12945.8	12789.9	12876.2	12834.3	12811.5
17.5°	8705.6	8645.7	8760.8	8726.0	8576.2
20°	6262.5	6278.1	6497.5	6387.2	6254.1
22.5°	4569.8	4626.1	4886.3	4602.2	4497.9
25°	3042.5	3157.6	3430.9	3077.3	2980.2
27.5°	1871.3	1924.1	2201.0	1847.3	1794.6
30°	1164.0	1137.7	1268.3	1088.5	1014.2
32.5°	763.6	730.1	772.0	692.9	633.0
35°	510.7	521.5	489.1	485.5	410.0
37.5°	318.9	366.8	323.7	345.3	263.7
40°	206.2	266.1	229.0	252.9	194.2
42.5°	169.0	205.0	188.2	200.2	172.6
45°	134.3	166.6	166.6	166.6	135.5
47.5°	74.3	111.5	142.7	113.9	79.1
50°	42.0	56.3	110.3	58.7	44.4
52.5°	28.8	32.4	75.5	33.6	30.0
55°	21.6	22.8	40.8	24.0	22.8
57.5°	16.8	18.0	21.6	18.0	16.8
60°	13.2	13.2	15.6	14.4	13.2
62.5°	9.6	9.6	10.8	9.6	9.6
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
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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