

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: P753774

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753774
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-EU4DR3070959024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7038.6 lumens
Efficiency: N/A
Efficacy: 89.2 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

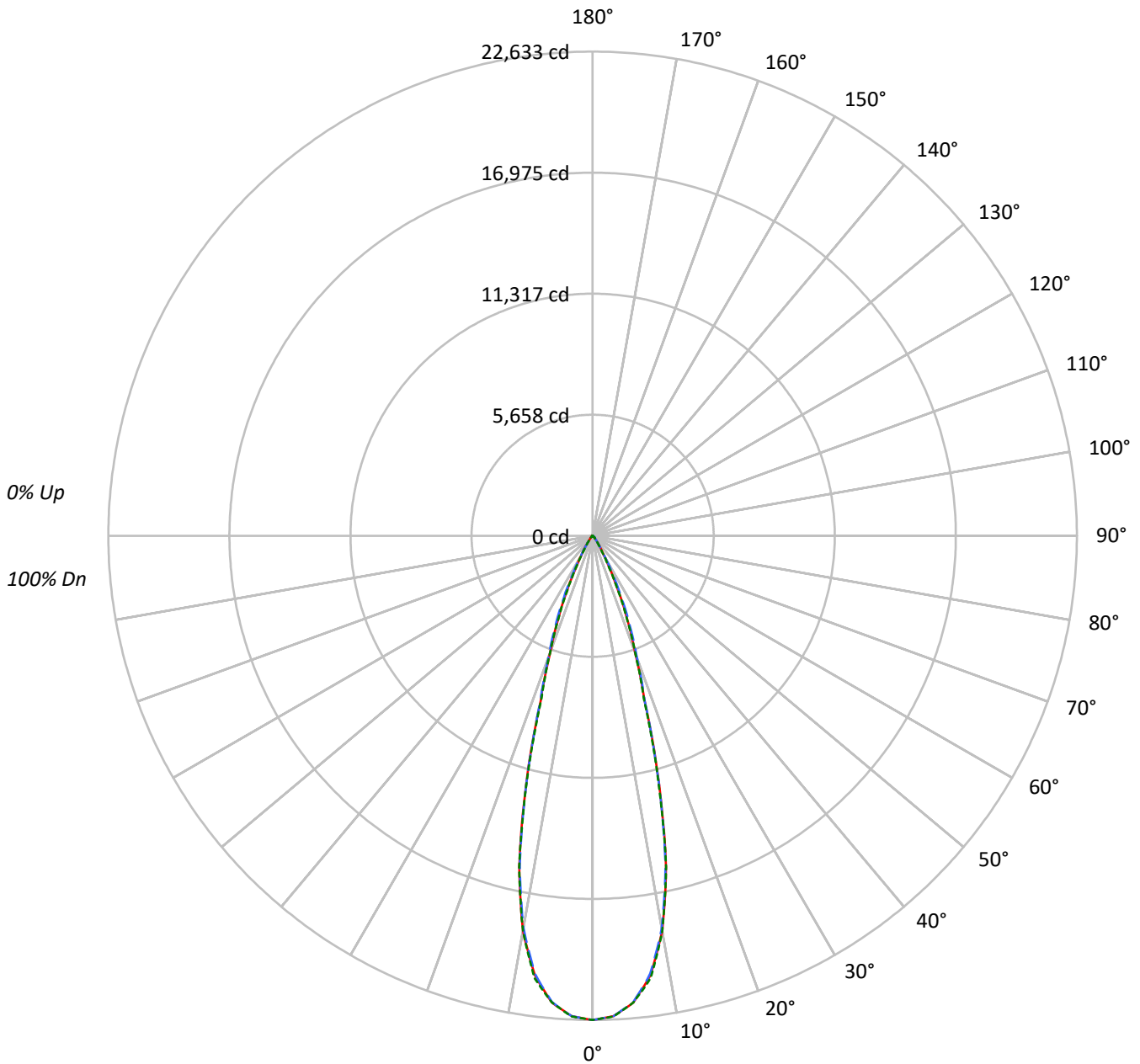


Downlight

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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	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°	1732384	1732384	1732384
5°	1682650	1680683	1682734
10°	1457430	1447155	1457088
15°	950899	945796	941041
20°	472835	490576	472207
25°	238184	268588	233302
30°	95367	103905	83090
35°	44236	42367	35508
40°	19095	21203	17986
45°	13477	16724	13596
50°	4632	12170	4894
55°	2669	5044	2816
60°	1868	2204	1868
65°	1213	1213	1213
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16724 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1990.2	28.3
10°-20°	3205.2	45.5
20°-30°	1385.1	19.7
30°-40°	315.7	4.5
40°-50°	108.4	1.5
50°-60°	26.5	0.4
60°-70°	6.9	0.1
70°-80°	0.7	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°	6580.5	93.5
0°-40°	6896.2	98.0
0°-60°	7031.1	99.9
0°-90°	7038.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7038.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22633	22633	22633	22633	22633	
5°	21899	21878	21874	21919	21900	1992
15°	12000	11855	11935	11896	11875	3213
25°	2820	2927	3180	2852	2762	1350
35°	473	483	453	450	380	321
45°	124	154	154	154	126	88
55°	20	21	38	22	21	19
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°	22632.7	22632.7	22632.7	22632.7	22632.7
2.5°	22482.7	22467.1	22476.0	22487.1	22491.6
5°	21899.3	21878.2	21873.7	21919.3	21900.4
7.5°	20722.5	20692.5	20647.0	20750.3	20847.0
10°	18751.3	18718.0	18619.1	18668.0	18746.9
12.5°	15841.1	15733.3	15731.1	15886.7	15865.5
15°	11999.7	11855.3	11935.3	11896.4	11875.3
17.5°	8069.4	8013.9	8120.6	8088.3	7949.4
20°	5804.8	5819.3	6022.6	5920.4	5797.1
22.5°	4235.8	4288.1	4529.2	4265.9	4169.2
25°	2820.2	2926.9	3180.2	2852.4	2762.4
27.5°	1734.6	1783.5	2040.1	1712.3	1663.4
30°	1079.0	1054.5	1175.6	1009.0	940.1
32.5°	707.8	676.7	715.6	642.3	586.7
35°	473.4	483.4	453.4	450.0	380.0
37.5°	295.6	340.0	300.0	320.0	244.5
40°	191.1	246.7	212.2	234.5	180.0
42.5°	156.7	190.0	174.5	185.6	160.0
45°	124.5	154.5	154.5	154.5	125.6
47.5°	68.9	103.3	132.2	105.6	73.3
50°	38.9	52.2	102.2	54.4	41.1
52.5°	26.7	30.0	70.0	31.1	27.8
55°	20.0	21.1	37.8	22.2	21.1
57.5°	15.6	16.7	20.0	16.7	15.6
60°	12.2	12.2	14.4	13.3	12.2
62.5°	8.9	8.9	10.0	8.9	8.9
65°	6.7	6.7	6.7	6.7	6.7
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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