

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: P753822

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753822
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-EU4DR3070959040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8254.3 lumens
Efficiency: N/A
Efficacy: 104.6 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

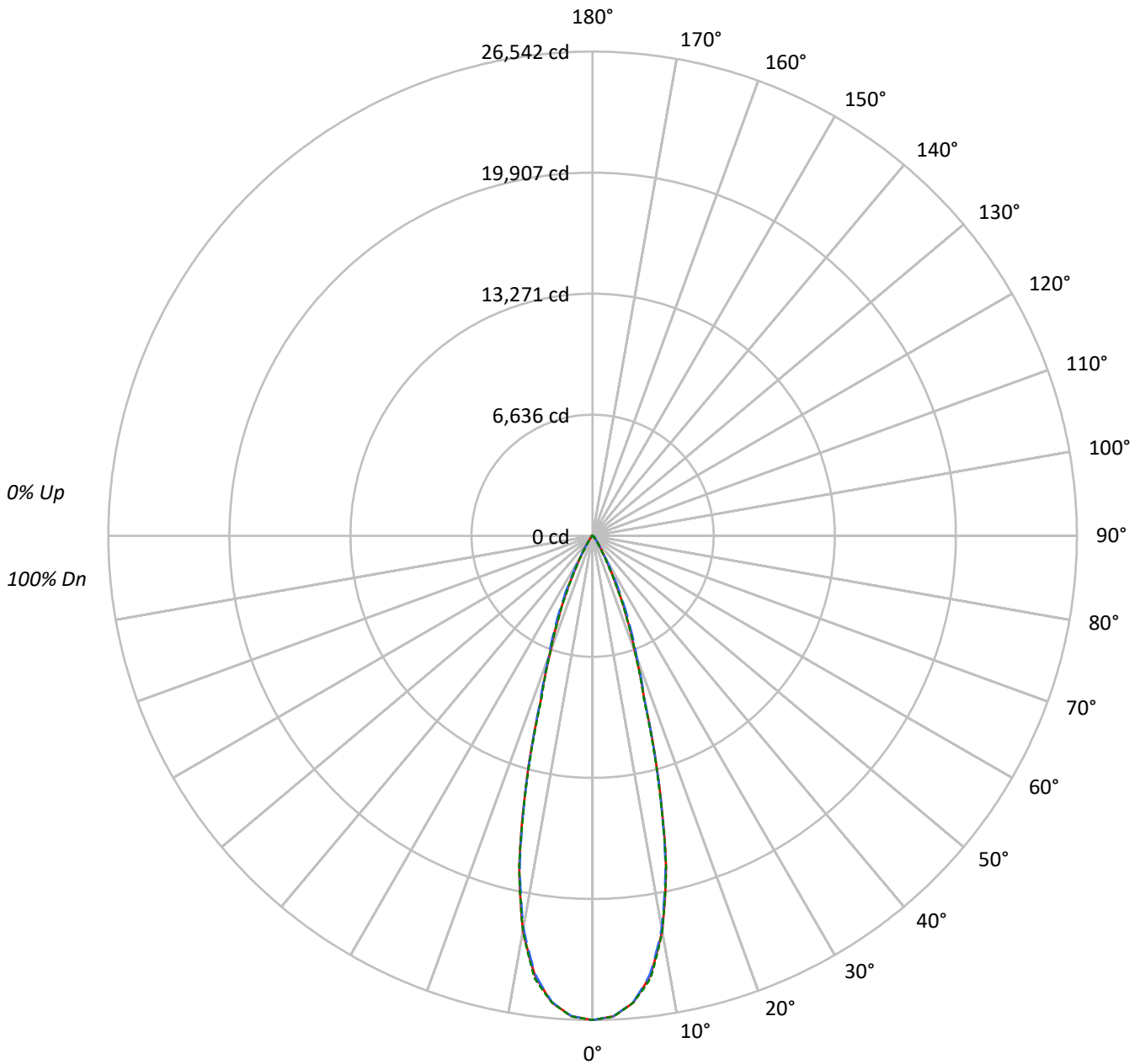


Downlight

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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°	2031592	2031592	2031592
5°	1973273	1970968	1973373
10°	1709155	1697100	1708751
15°	1115139	1109148	1103570
20°	554502	575314	553761
25°	279322	314980	273596
30°	111833	121856	97435
35°	51870	49683	41647
40°	22392	24870	21093
45°	15793	19604	15945
50°	5430	14278	5740
55°	3136	5912	3310
60°	2189	2587	2189
65°	1413	1413	1413
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: 19604 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2333.9	28.3
10°-20°	3758.8	45.5
20°-30°	1624.3	19.7
30°-40°	370.2	4.5
40°-50°	127.1	1.5
50°-60°	31.0	0.4
60°-70°	8.0	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°	7717.1	93.5
0°-40°	8087.3	98.0
0°-60°	8245.5	99.9
0°-90°	8254.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8254.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26542	26542	26542	26542	26542	
5°	25682	25657	25652	25705	25683	2336
15°	14072	13903	13997	13951	13926	3768
25°	3307	3432	3730	3345	3240	1583
35°	555	567	532	528	446	377
45°	146	181	181	181	147	104
55°	24	25	44	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°	26541.7	26541.7	26541.7	26541.7	26541.7
2.5°	26365.8	26347.6	26358.0	26371.0	26376.2
5°	25681.7	25656.9	25651.7	25705.1	25683.0
7.5°	24301.7	24266.5	24213.1	24334.3	24447.6
10°	21990.0	21950.9	21834.9	21892.2	21984.8
12.5°	18577.1	18450.7	18448.1	18630.6	18605.8
15°	14072.3	13902.9	13996.7	13951.1	13926.3
17.5°	9463.2	9398.0	9523.1	9485.3	9322.4
20°	6807.4	6824.4	7062.9	6943.0	6798.3
22.5°	4967.5	5028.7	5311.5	5002.6	4889.3
25°	3307.3	3432.4	3729.5	3345.1	3239.5
27.5°	2034.2	2091.5	2392.5	2008.1	1950.8
30°	1265.3	1236.7	1378.7	1183.2	1102.4
32.5°	830.1	793.6	839.2	753.2	688.0
35°	555.1	566.9	531.7	527.8	445.7
37.5°	346.6	398.8	351.8	375.3	286.7
40°	224.1	289.3	248.9	275.0	211.1
42.5°	183.7	222.8	204.6	217.6	187.6
45°	145.9	181.1	181.1	181.1	147.3
47.5°	80.8	121.2	155.1	123.8	86.0
50°	45.6	61.2	119.9	63.9	48.2
52.5°	31.3	35.2	82.1	36.5	32.6
55°	23.5	24.8	44.3	26.1	24.8
57.5°	18.2	19.5	23.5	19.5	18.2
60°	14.3	14.3	16.9	15.6	14.3
62.5°	10.4	10.4	11.7	10.4	10.4
65°	7.8	7.8	7.8	7.8	7.8
67.5°	3.9	5.2	5.2	5.2	5.2
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

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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