

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: P753835

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753835
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-EU4DR3070959050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 8313.3 lumens
Efficiency: N/A
Efficacy: 105.4 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

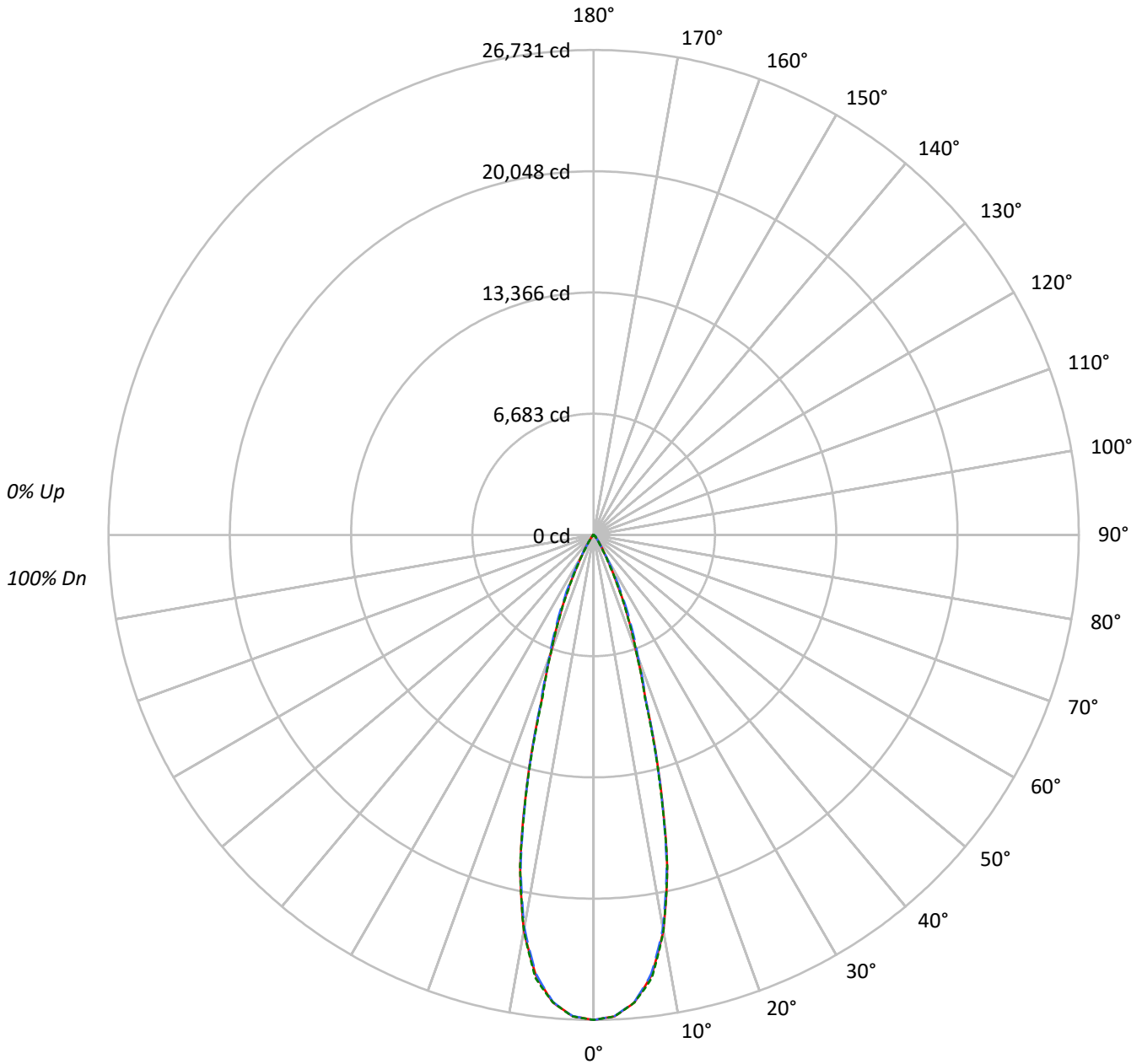


Downlight

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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°	2046104	2046104	2046104
5°	1987365	1985045	1987465
10°	1721366	1709225	1720954
15°	1123103	1117073	1111454
20°	558469	579419	557720
25°	281315	317226	275556
30°	112637	122722	98134
35°	52244	50038	41937
40°	22552	25050	21243
45°	15913	19745	16053
50°	5466	14373	5787
55°	3149	5952	3323
60°	2204	2618	2204
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: 19745 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2350.6	28.3
10°-20°	3785.7	45.5
20°-30°	1635.9	19.7
30°-40°	372.9	4.5
40°-50°	128.0	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°	7772.2	93.5
0°-40°	8145.1	98.0
0°-60°	8304.3	99.9
0°-90°	8313.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8313.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26731	26731	26731	26731	26731	
5°	25865	25840	25835	25889	25866	2353
15°	14173	14002	14097	14051	14026	3795
25°	3331	3457	3756	3369	3263	1594
35°	559	571	536	532	449	379
45°	147	182	182	182	148	104
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°	26731.3	26731.3	26731.3	26731.3	26731.3
2.5°	26554.1	26535.8	26546.3	26559.4	26564.6
5°	25865.1	25840.2	25834.9	25888.8	25866.4
7.5°	24475.3	24439.8	24386.0	24508.1	24622.3
10°	22147.1	22107.7	21990.9	22048.6	22141.8
12.5°	18709.8	18582.5	18579.9	18763.6	18738.7
15°	14172.8	14002.2	14096.7	14050.7	14025.8
17.5°	9530.8	9465.2	9591.1	9553.1	9389.0
20°	6856.1	6873.1	7113.3	6992.6	6846.9
22.5°	5002.9	5064.6	5349.4	5038.4	4924.2
25°	3330.9	3456.9	3756.1	3369.0	3262.7
27.5°	2048.7	2106.4	2409.6	2022.4	1964.7
30°	1274.4	1245.5	1388.5	1191.7	1110.3
32.5°	836.0	799.3	845.2	758.6	693.0
35°	559.1	570.9	535.5	531.5	448.8
37.5°	349.1	401.6	354.4	378.0	288.7
40°	225.7	291.4	250.7	276.9	212.6
42.5°	185.1	224.4	206.0	219.2	189.0
45°	147.0	182.4	182.4	182.4	148.3
47.5°	81.4	122.1	156.2	124.7	86.6
50°	45.9	61.7	120.7	64.3	48.6
52.5°	31.5	35.4	82.7	36.7	32.8
55°	23.6	24.9	44.6	26.2	24.9
57.5°	18.4	19.7	23.6	19.7	18.4
60°	14.4	14.4	17.1	15.7	14.4
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	5.2	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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