

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: P754600

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754600
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: LD4D85BD010-EU4DR3070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6737.8 lumens
Efficiency: N/A
Efficacy: 76.8 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): 87.7
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

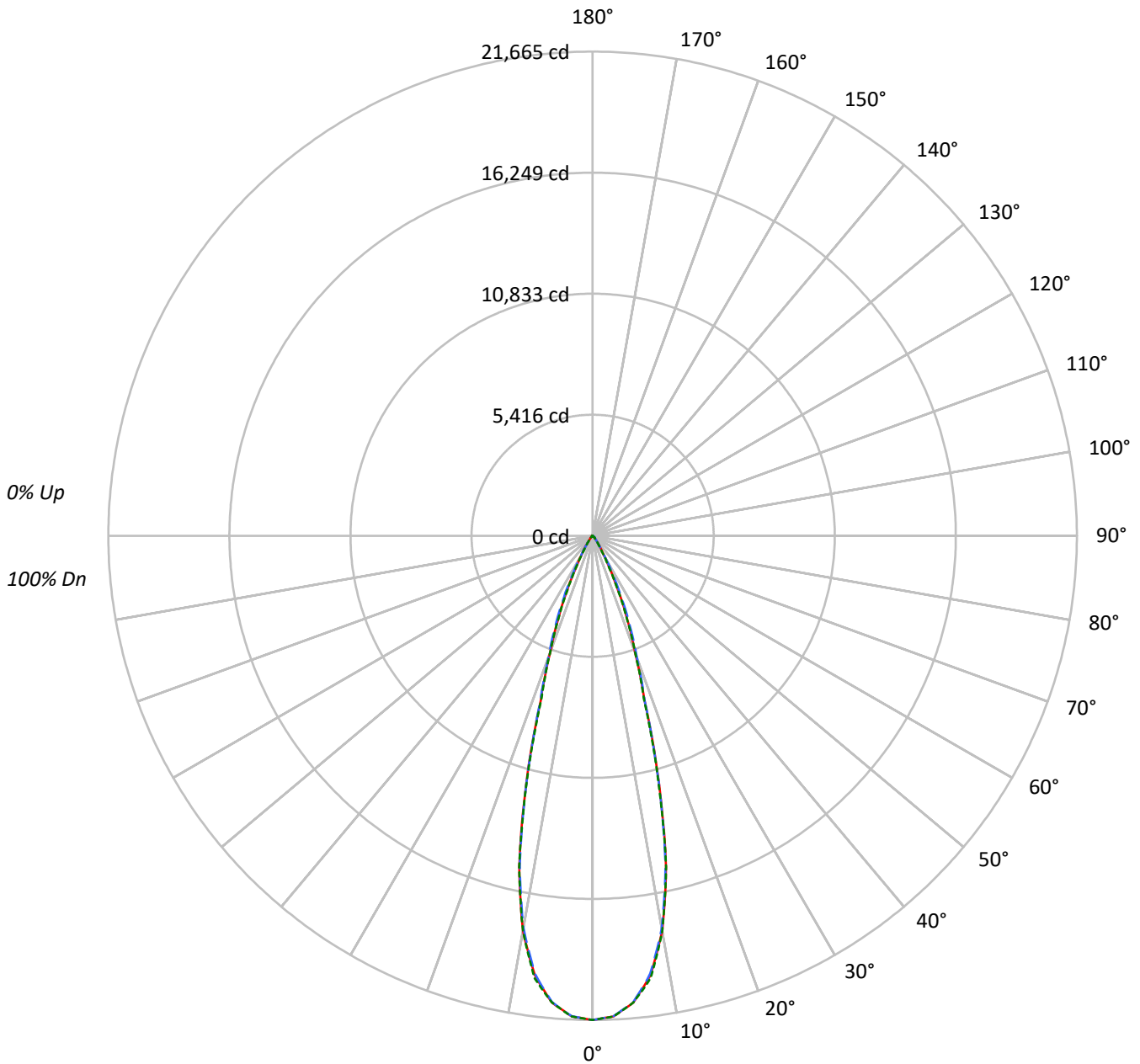


Downlight

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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1658320	1658320	1658320
5°	1610716	1608834	1610801
10°	1395126	1385286	1394792
15°	910247	905358	900809
20°	452625	469609	452014
25°	227998	257110	223328
30°	91284	99468	79537
35°	42339	40554	33994
40°	18285	20304	17216
45°	12892	16010	13011
50°	4430	11658	4692
55°	2549	4831	2696
60°	1791	2113	1791
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1905.1	28.3
10°-20°	3068.2	45.5
20°-30°	1325.9	19.7
30°-40°	302.2	4.5
40°-50°	103.8	1.5
50°-60°	25.3	0.4
60°-70°	6.6	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°	6299.2	93.5
0°-40°	6601.4	98.0
0°-60°	6730.5	99.9
0°-90°	6737.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6737.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21665	21665	21665	21665	21665	
5°	20963	20943	20939	20982	20964	1907
15°	11487	11348	11425	11388	11368	3076
25°	2700	2802	3044	2730	2644	1292
35°	453	463	434	431	364	307
45°	119	148	148	148	120	85
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21665.1	21665.1	21665.1	21665.1	21665.1
2.5°	21521.5	21506.6	21515.1	21525.8	21530.0
5°	20963.1	20942.9	20938.6	20982.2	20964.2
7.5°	19836.7	19807.9	19764.3	19863.2	19955.8
10°	17949.7	17917.8	17823.1	17869.9	17945.4
12.5°	15163.9	15060.7	15058.6	15207.5	15187.3
15°	11486.7	11348.5	11425.0	11387.8	11367.6
17.5°	7724.5	7671.3	7773.4	7742.6	7609.6
20°	5556.7	5570.5	5765.2	5667.3	5549.2
22.5°	4054.8	4104.8	4335.6	4083.5	3990.9
25°	2699.6	2801.7	3044.3	2730.5	2644.3
27.5°	1660.4	1707.2	1952.9	1639.1	1592.3
30°	1032.8	1009.4	1125.4	965.8	899.9
32.5°	677.6	647.8	685.0	614.8	561.6
35°	453.1	462.7	434.0	430.8	363.8
37.5°	282.9	325.5	287.2	306.3	234.0
40°	183.0	236.1	203.2	224.4	172.3
42.5°	150.0	181.9	167.0	177.6	153.2
45°	119.1	147.9	147.9	147.9	120.2
47.5°	65.9	98.9	126.6	101.1	70.2
50°	37.2	50.0	97.9	52.1	39.4
52.5°	25.5	28.7	67.0	29.8	26.6
55°	19.1	20.2	36.2	21.3	20.2
57.5°	14.9	16.0	19.1	16.0	14.9
60°	11.7	11.7	13.8	12.8	11.7
62.5°	8.5	8.5	9.6	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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

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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