

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: P755163

Luminaire Tested: LD4D85BD010-EU4DR6570959050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P755163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6570959050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7391.7 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

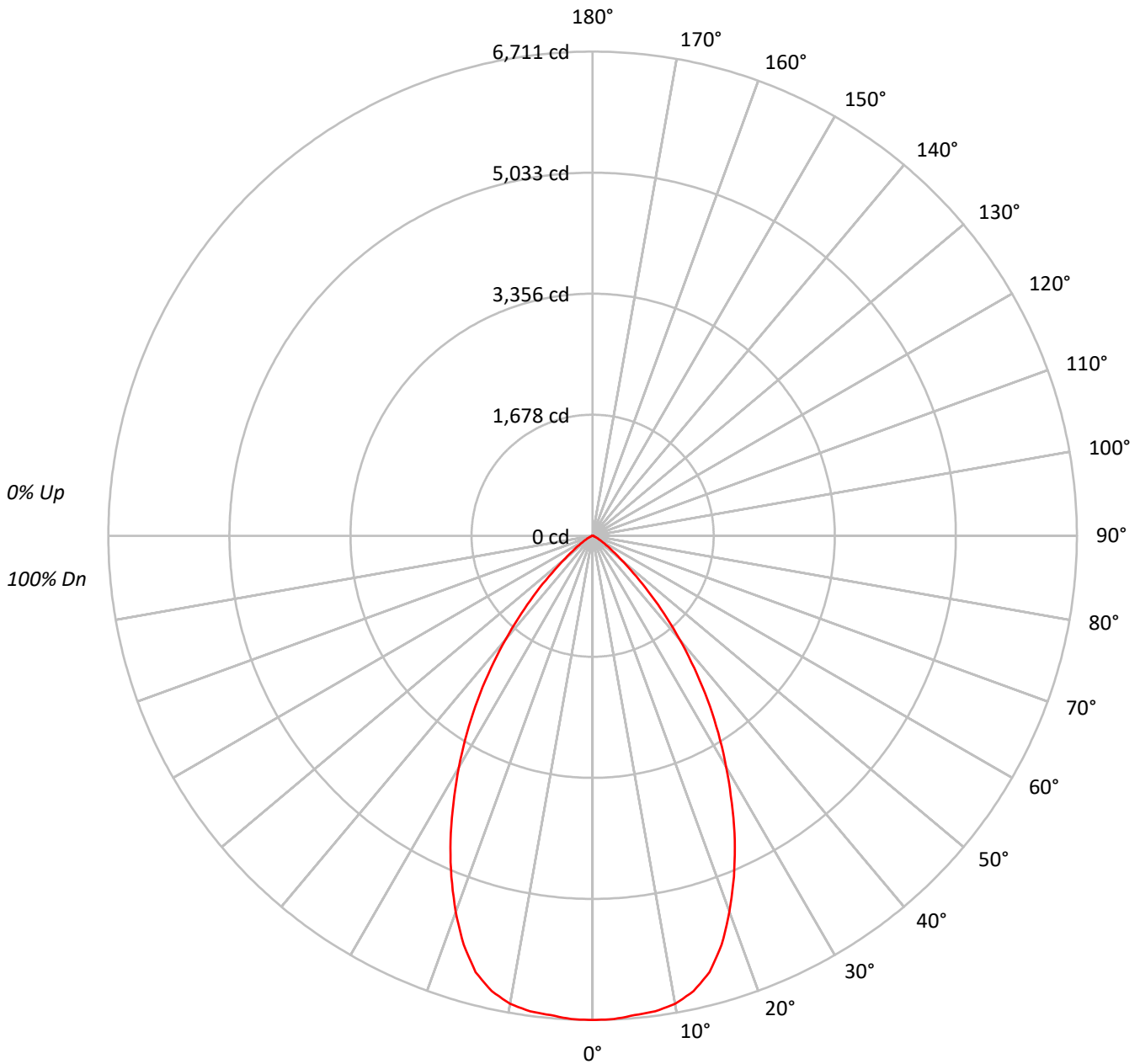


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	391972
5°	390983
10°	390647
15°	378608
20°	344677
25°	300362
30°	249814
35°	197945
40°	142868
45°	90260
50°	47047
55°	25008
60°	13129
65°	7228
70°	3040
75°	3340
80°	2321
85°	2010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 90260 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.7	8.6
10°-20°	1738.0	23.5
20°-30°	2124.5	28.7
30°-40°	1723.7	23.3
40°-50°	859.0	11.6
50°-60°	239.6	3.2
60°-70°	54.4	0.7
70°-80°	14.2	0.2
80°-90°	3.6	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°	4497.2	60.8
0°-40°	6220.9	84.2
0°-60°	7319.4	99.0
0°-90°	7391.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7391.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6711	
5°	6669	635
15°	6262	1738
25°	4661	2124
35°	2776	1724
45°	1093	859
55°	246	240
65°	52	54
75°	15	14
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6711.4
2.5°	6706.5
5°	6669.0
7.5°	6647.3
10°	6587.1
12.5°	6464.9
15°	6261.7
17.5°	5944.1
20°	5545.7
22.5°	5115.7
25°	4661.0
27.5°	4174.8
30°	3704.3
32.5°	3239.8
35°	2776.3
37.5°	2313.7
40°	1873.9
42.5°	1461.6
45°	1092.8
47.5°	761.4
50°	517.8
52.5°	357.0
55°	245.6
57.5°	165.7
60°	112.4
62.5°	77.9
65°	52.3
67.5°	26.6
70°	17.8
72.5°	16.8
75°	14.8
77.5°	9.9
80°	6.9
82.5°	4.9
85°	3.0
87.5°	2.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)