

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: P755198

Luminaire Tested: LD4D85BD010-EU4DR7070959030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR7070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4758.2 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

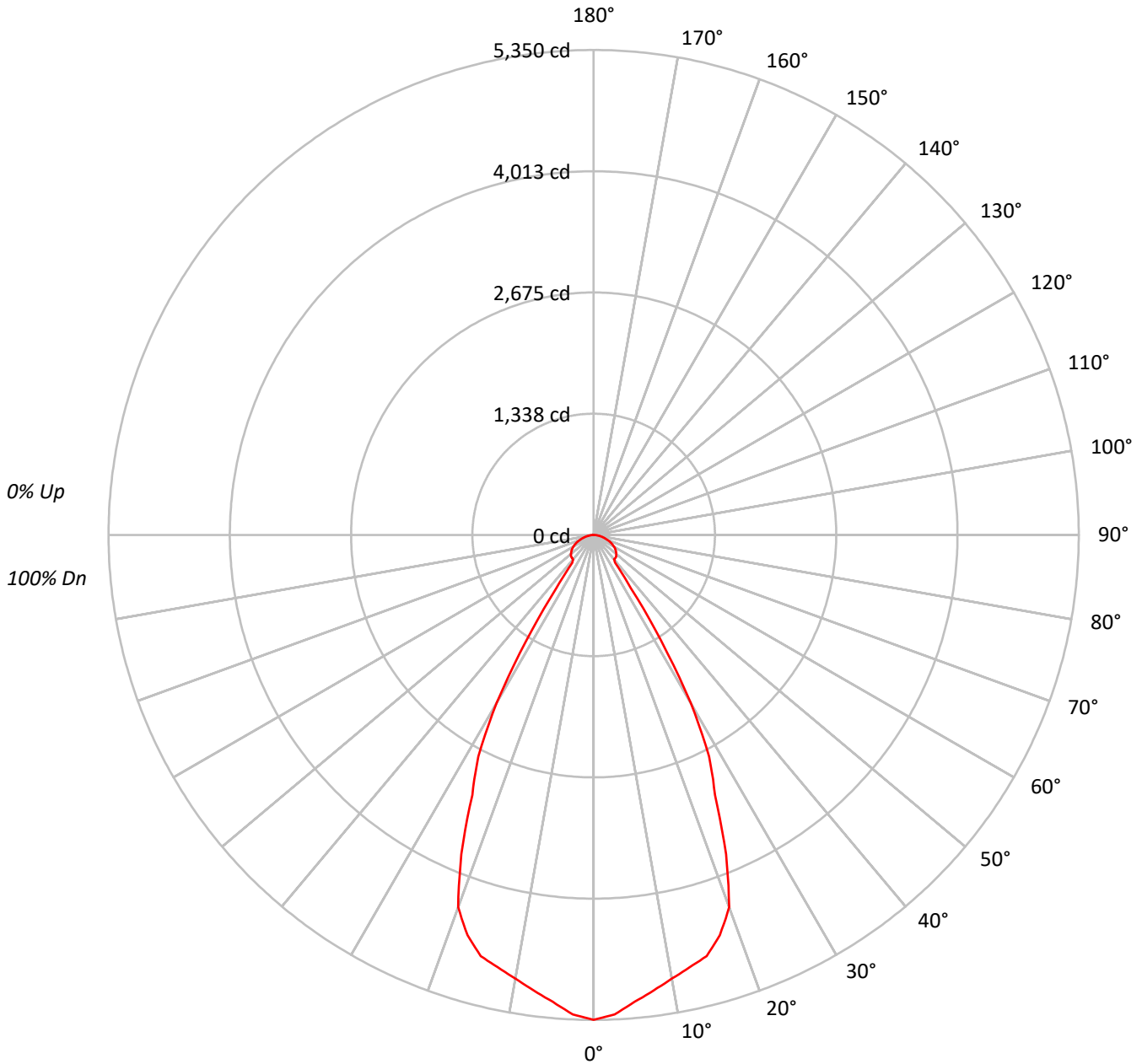
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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					70					50					30				
RW	70	50	30	10	70	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	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	584501
5°	567135
10°	551325
15°	544095
20°	508078
25°	381692
30°	269826
35°	95582
40°	50263
45°	53525
50°	55430
55°	56461
60°	56816
65°	55610
70°	52487
75°	48632
80°	43164
85°	35102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 56837 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.7	10.3
10°-20°	1337.8	28.1
20°-30°	1473.4	31.0
30°-40°	563.0	11.8
40°-50°	265.8	5.6
50°-60°	264.2	5.6
60°-70°	211.6	4.4
70°-80°	121.6	2.6
80°-90°	33.1	0.7
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°	3299.0	69.3
0°-40°	3861.9	81.2
0°-60°	4392.0	92.3
0°-90°	4758.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4758.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5350	
5°	5171	488
15°	4810	1338
25°	3166	1473
35°	717	563
45°	346	266
55°	296	264
65°	215	212
75°	115	122
85°	28	33
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5349.6
2.5°	5293.7
5°	5170.9
7.5°	5068.4
10°	4969.3
12.5°	4885.5
15°	4810.1
17.5°	4628.0
20°	4369.7
22.5°	3812.3
25°	3166.1
27.5°	2756.1
30°	2138.7
32.5°	1381.5
35°	716.6
37.5°	387.1
40°	352.4
42.5°	349.8
45°	346.4
47.5°	338.8
50°	326.1
52.5°	311.7
55°	296.4
57.5°	279.5
60°	260.0
62.5°	238.0
65°	215.1
67.5°	189.7
70°	164.3
72.5°	138.9
75°	115.2
77.5°	90.6
80°	68.6
82.5°	48.3
85°	28.0
87.5°	11.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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