

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: P755237

Luminaire Tested: LD4D85BD010-EU4DR7070959050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755237
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-EU4DR7070959050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5069.1 lumens
Efficiency: N/A
Efficacy: 57.8 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

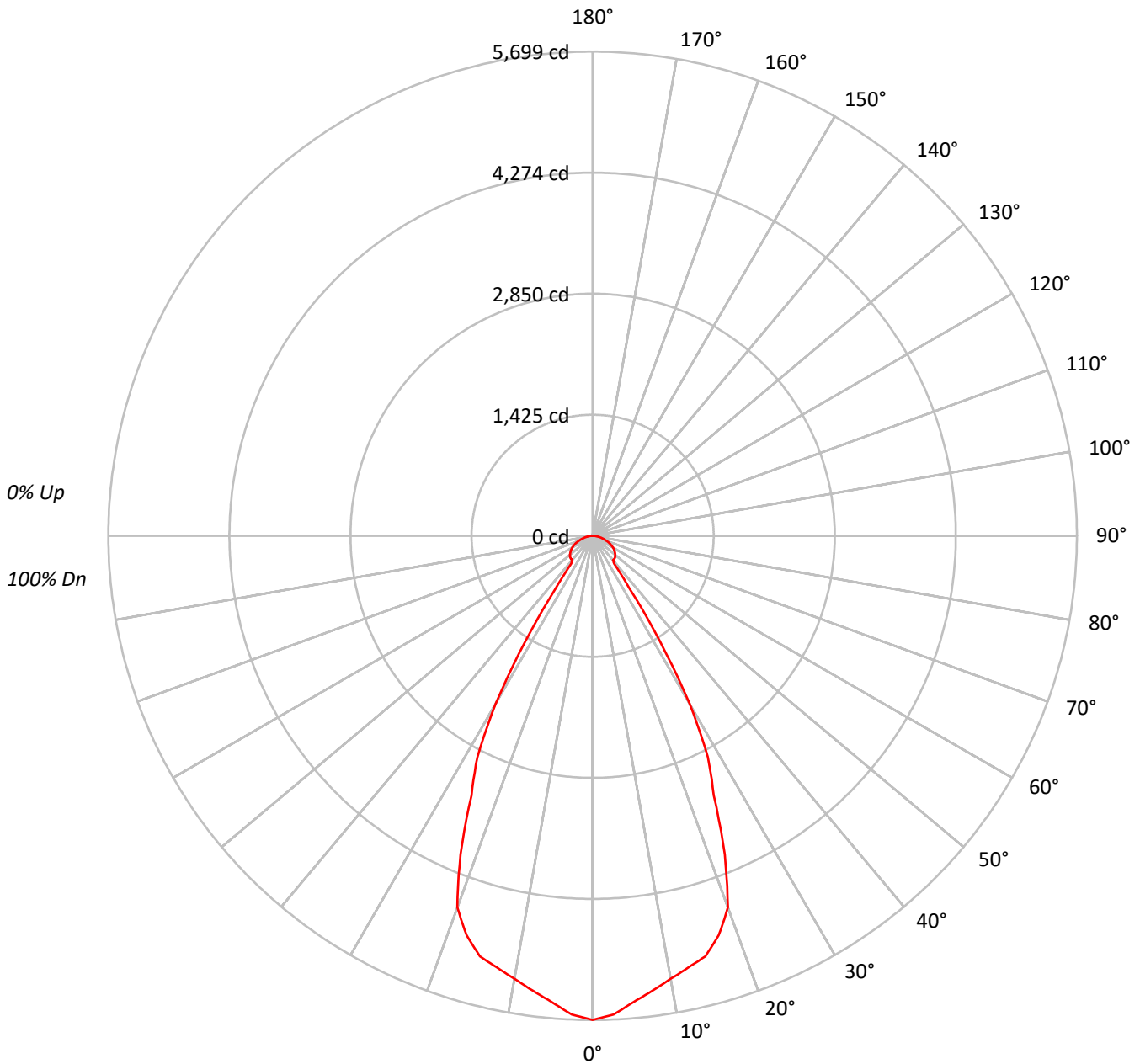
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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									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	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°	622688
5°	604195
10°	587350
15°	579647
20°	541262
25°	406623
30°	287451
35°	101824
40°	53543
45°	57033
50°	59051
55°	60157
60°	60530
65°	59256
70°	55937
75°	51798
80°	45995
85°	37358

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 60558 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.6	10.3
10°-20°	1425.2	28.1
20°-30°	1569.7	31.0
30°-40°	599.7	11.8
40°-50°	283.2	5.6
50°-60°	281.5	5.6
60°-70°	225.4	4.4
70°-80°	129.5	2.6
80°-90°	35.2	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°	3514.5	69.3
0°-40°	4114.3	81.2
0°-60°	4679.0	92.3
0°-90°	5069.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5699	
5°	5509	520
15°	5124	1425
25°	3373	1570
35°	763	600
45°	369	283
55°	316	282
65°	229	225
75°	123	130
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5699.1
2.5°	5639.6
5°	5508.8
7.5°	5399.6
10°	5294.0
12.5°	5204.7
15°	5124.4
17.5°	4930.4
20°	4655.1
22.5°	4061.4
25°	3372.9
27.5°	2936.2
30°	2278.4
32.5°	1471.7
35°	763.4
37.5°	412.4
40°	375.4
42.5°	372.7
45°	369.1
47.5°	360.9
50°	347.4
52.5°	332.1
55°	315.8
57.5°	297.8
60°	277.0
62.5°	253.6
65°	229.2
67.5°	202.1
70°	175.1
72.5°	148.0
75°	122.7
77.5°	96.5
80°	73.1
82.5°	51.4
85°	29.8
87.5°	11.7
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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