

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: P755172

Luminaire Tested: LD4D85BD010-EU4DR7070959024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755172
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-EU4DR7070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4077.3 lumens
Efficiency: N/A
Efficacy: 46.5 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

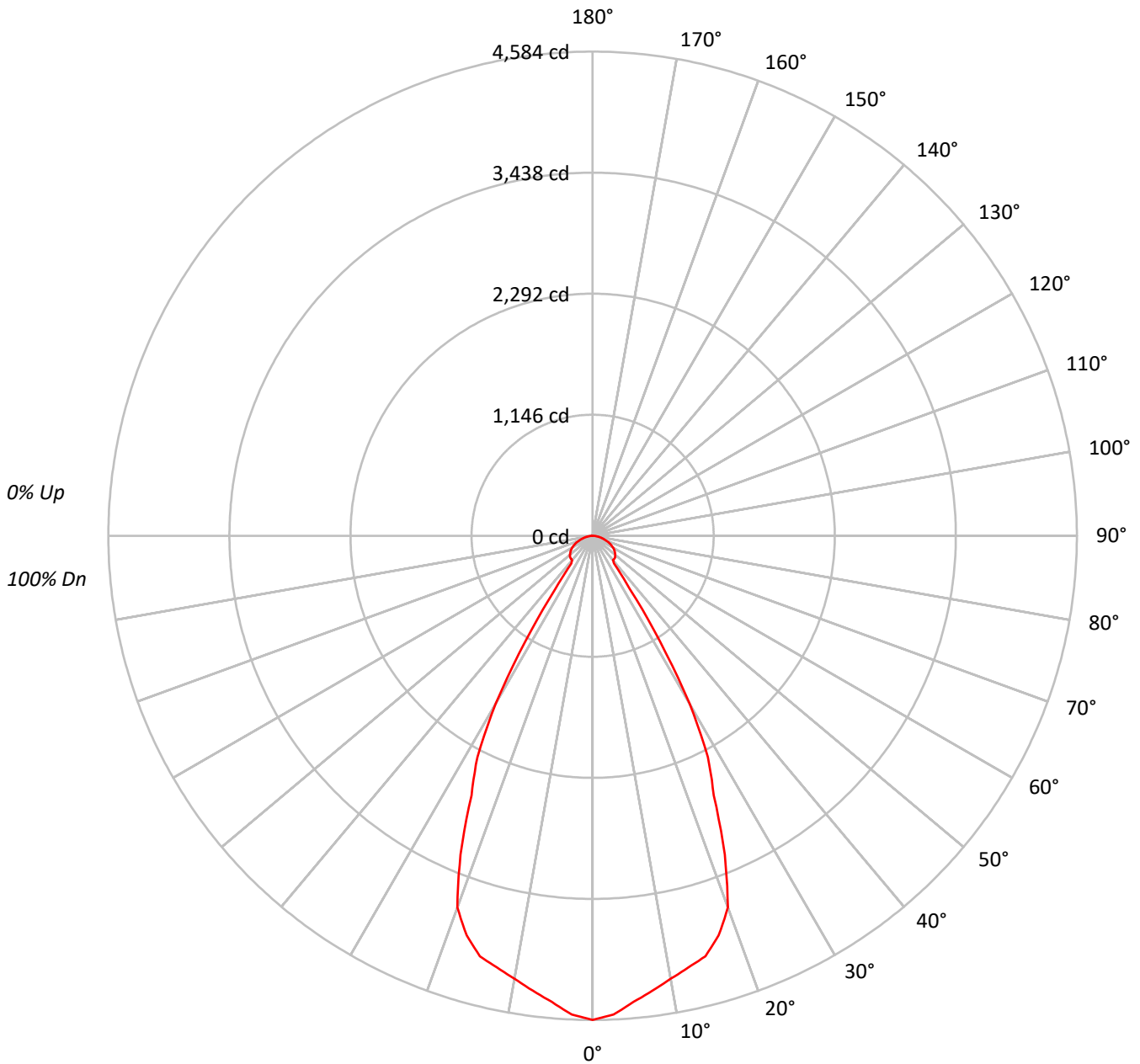
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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°	500851
5°	485973
10°	472431
15°	466226
20°	435360
25°	327068
30°	231207
35°	81897
40°	43060
45°	45861
50°	47492
55°	48385
60°	48687
65°	47648
70°	44980
75°	41666
80°	36997
85°	30087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 48703 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	10.3
10°-20°	1146.4	28.1
20°-30°	1262.6	31.0
30°-40°	482.4	11.8
40°-50°	227.7	5.6
50°-60°	226.4	5.6
60°-70°	181.3	4.4
70°-80°	104.2	2.6
80°-90°	28.3	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°	2826.8	69.3
0°-40°	3309.2	81.2
0°-60°	3763.4	92.3
0°-90°	4077.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4077.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4584	
5°	4431	418
15°	4122	1146
25°	2713	1263
35°	614	482
45°	297	228
55°	254	226
65°	184	181
75°	99	104
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4584.0
2.5°	4536.1
5°	4430.9
7.5°	4343.1
10°	4258.2
12.5°	4186.3
15°	4121.7
17.5°	3965.7
20°	3744.3
22.5°	3266.7
25°	2713.0
27.5°	2361.7
30°	1832.6
32.5°	1183.8
35°	614.0
37.5°	331.7
40°	301.9
42.5°	299.7
45°	296.8
47.5°	290.3
50°	279.4
52.5°	267.1
55°	254.0
57.5°	239.5
60°	222.8
62.5°	203.9
65°	184.3
67.5°	162.6
70°	140.8
72.5°	119.0
75°	98.7
77.5°	77.7
80°	58.8
82.5°	41.4
85°	24.0
87.5°	9.4
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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(END OF REPORT)