

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: P755187

Luminaire Tested: LD4D85BD010-EU4DR7070959027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755187
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-EU4DR7070959027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8335.2 lumens
Efficiency: N/A
Efficacy: 95.0 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

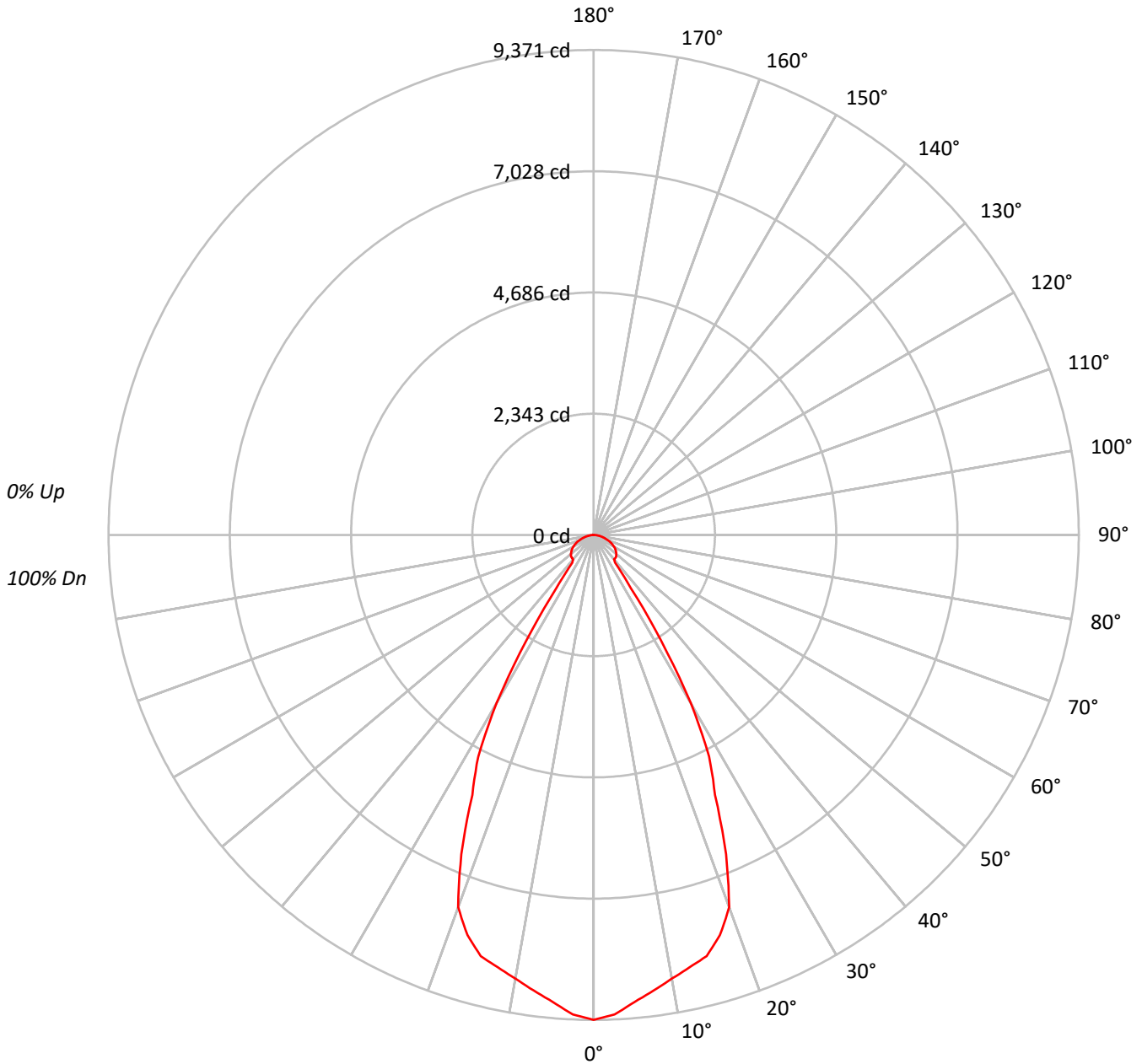
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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
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°	1023904
5°	993475
10°	965787
15°	953107
20°	890011
25°	668615
30°	472659
35°	167422
40°	88031
45°	93762
50°	97092
55°	98922
60°	99537
65°	97441
70°	91940
75°	85190
80°	75631
85°	61428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 99561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.4	10.3
10°-20°	2343.5	28.1
20°-30°	2581.0	31.0
30°-40°	986.1	11.8
40°-50°	465.6	5.6
50°-60°	462.9	5.6
60°-70°	370.6	4.4
70°-80°	213.0	2.6
80°-90°	57.9	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°	5778.9	69.3
0°-40°	6765.1	81.2
0°-60°	7693.6	92.3
0°-90°	8335.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8335.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9371	
5°	9058	854
15°	8426	2344
25°	5546	2581
35°	1255	986
45°	607	466
55°	519	463
65°	377	371
75°	202	213
85°	49	58
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9371.2
2.5°	9273.2
5°	9058.1
7.5°	8878.6
10°	8705.0
12.5°	8558.1
15°	8426.0
17.5°	8107.0
20°	7654.5
22.5°	6678.2
25°	5546.1
27.5°	4828.0
30°	3746.4
32.5°	2419.9
35°	1255.2
37.5°	678.1
40°	617.2
42.5°	612.8
45°	606.8
47.5°	593.5
50°	571.2
52.5°	546.0
55°	519.3
57.5°	489.6
60°	455.5
62.5°	416.9
65°	376.9
67.5°	332.4
70°	287.8
72.5°	243.3
75°	201.8
77.5°	158.8
80°	120.2
82.5°	84.6
85°	49.0
87.5°	19.3
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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