

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: P748815

Luminaire Tested: LD4D45BD010-EU4DR6040509035-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6040509035-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3288.5 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

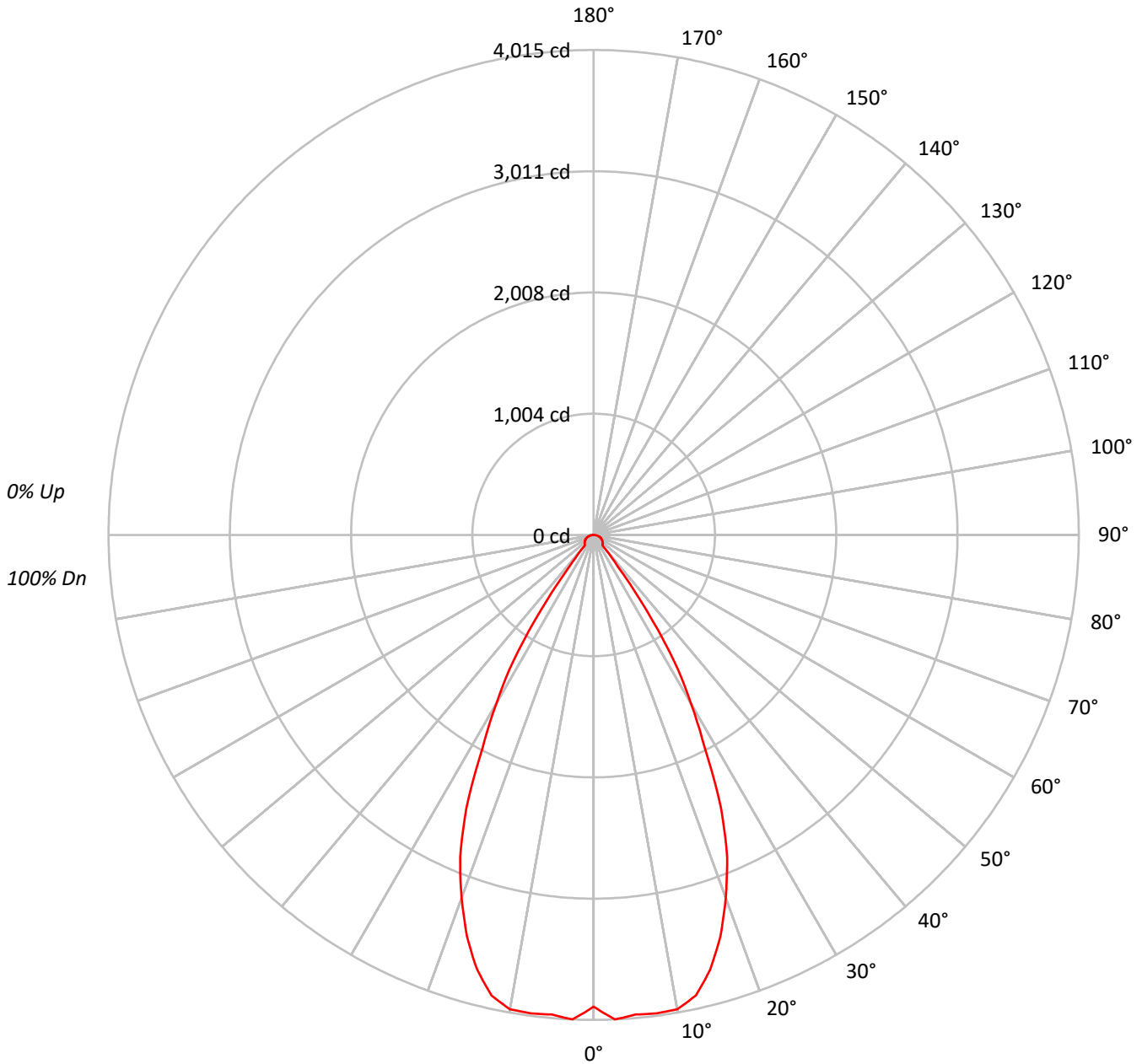
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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			100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	426718
5°	437210
10°	442487
15°	421535
20°	371666
25°	300606
30°	203338
35°	101891
40°	16531
45°	16178
50°	16505
55°	16744
60°	17219
65°	17606
70°	18017
75°	18237
80°	17618
85°	14667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 18237 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.0	11.6
10°-20°	1030.8	31.3
20°-30°	1109.0	33.7
30°-40°	482.1	14.7
40°-50°	81.0	2.5
50°-60°	78.7	2.4
60°-70°	67.3	2.0
70°-80°	45.1	1.4
80°-90°	13.5	0.4
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°	2520.8	76.7
0°-40°	3002.9	91.3
0°-60°	3162.6	96.2
0°-90°	3288.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3288.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3906	
5°	3986	381
15°	3727	1031
25°	2494	1109
35°	764	482
45°	105	81
55°	88	79
65°	68	67
75°	43	45
85°	12	13
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3905.5
2.5°	4015.3
5°	3986.3
7.5°	3995.5
10°	3988.3
12.5°	3906.0
15°	3726.6
17.5°	3485.7
20°	3196.5
22.5°	2886.9
25°	2493.5
27.5°	1994.4
30°	1611.7
32.5°	1242.2
35°	763.9
37.5°	326.8
40°	115.9
42.5°	106.7
45°	104.7
47.5°	101.1
50°	97.1
52.5°	92.5
55°	87.9
57.5°	83.4
60°	78.8
62.5°	73.7
65°	68.1
67.5°	62.5
70°	56.4
72.5°	49.8
75°	43.2
77.5°	35.6
80°	28.0
82.5°	19.8
85°	11.7
87.5°	4.1
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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