

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: P748490

Luminaire Tested: LD4D45BD010-EU4DR4040509030-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P748490
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR4040509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.8 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

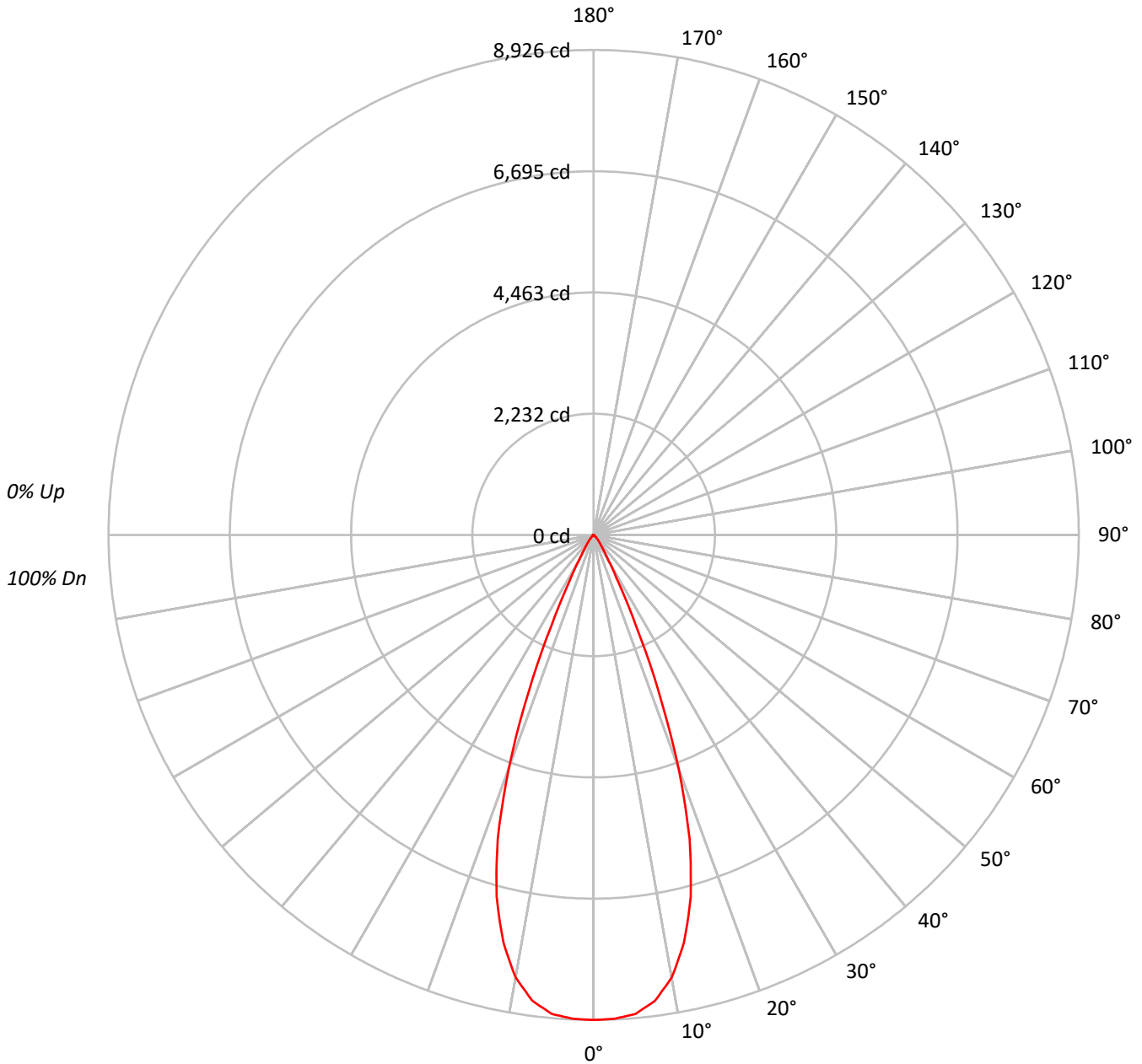
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	97	96			96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92			92
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88			88
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84			84
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81			81
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77			77
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74			74
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72			72
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69			69
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67			67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	975272
5°	970531
10°	917359
15°	779872
20°	531541
25°	221787
30°	69731
35°	32412
40°	17929
45°	8220
50°	3995
55°	2191
60°	1136
65°	414
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8220 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.3	21.6
10°-20°	1851.1	48.3
20°-30°	926.6	24.2
30°-40°	169.8	4.4
40°-50°	46.9	1.2
50°-60°	11.0	0.3
60°-70°	2.1	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	3603.9	94.0
0°-40°	3773.7	98.4
0°-60°	3831.6	99.9
0°-90°	3833.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8926	
5°	8849	826
15°	6894	1851
25°	1840	927
35°	243	170
45°	53	47
55°	12	11
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8926.1
2.5°	8913.1
5°	8848.9
7.5°	8644.5
10°	8268.5
12.5°	7682.4
15°	6894.5
17.5°	5869.9
20°	4571.5
22.5°	3116.7
25°	1839.7
27.5°	972.5
30°	552.7
32.5°	357.2
35°	243.0
37.5°	173.6
40°	125.7
42.5°	86.0
45°	53.2
47.5°	33.9
50°	23.5
52.5°	16.7
55°	11.5
57.5°	7.3
60°	5.2
62.5°	3.1
65°	1.6
67.5°	1.0
70°	0.5
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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(END OF REPORT)