

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: P748986

Luminaire Tested: LD4D45BD010-EU4DR7040509040-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748986
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: LD4D45BD010-EU4DR7040509040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4619.8 lumens
Efficiency: N/A
Efficacy: 119.4 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

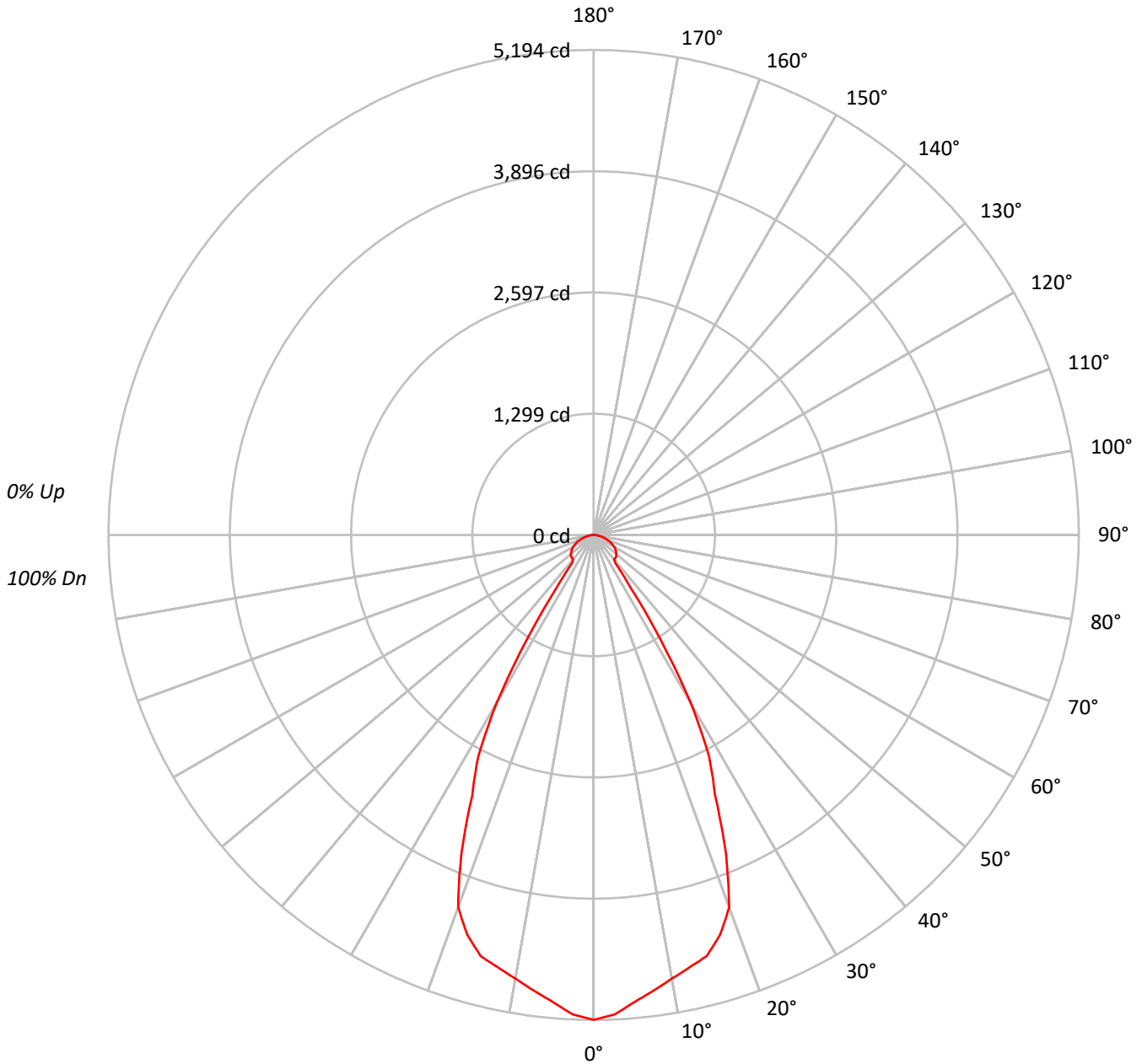
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	567511
5°	550650
10°	535294
15°	528270
20°	493299
25°	370589
30°	261978
35°	92794
40°	48794
45°	51964
50°	53816
55°	54823
60°	55177
65°	54008
70°	50953
75°	47196
80°	41905
85°	33973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 55190 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.5	10.3
10°-20°	1298.9	28.1
20°-30°	1430.6	31.0
30°-40°	546.6	11.8
40°-50°	258.1	5.6
50°-60°	256.6	5.6
60°-70°	205.4	4.4
70°-80°	118.1	2.6
80°-90°	32.1	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°	3203.0	69.3
0°-40°	3749.6	81.2
0°-60°	4264.3	92.3
0°-90°	4619.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4619.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5194	
5°	5021	474
15°	4670	1299
25°	3074	1431
35°	696	547
45°	336	258
55°	288	257
65°	209	205
75°	112	118
85°	27	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5194.1
2.5°	5139.8
5°	5020.6
7.5°	4921.1
10°	4824.8
12.5°	4743.4
15°	4670.2
17.5°	4493.4
20°	4242.6
22.5°	3701.5
25°	3074.0
27.5°	2676.0
30°	2076.5
32.5°	1341.3
35°	695.7
37.5°	375.8
40°	342.1
42.5°	339.6
45°	336.3
47.5°	328.9
50°	316.6
52.5°	302.6
55°	287.8
57.5°	271.4
60°	252.5
62.5°	231.1
65°	208.9
67.5°	184.2
70°	159.5
72.5°	134.9
75°	111.8
77.5°	88.0
80°	66.6
82.5°	46.9
85°	27.1
87.5°	10.7
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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(END OF REPORT)