

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: P748817

Luminaire Tested: LD4D45BD010-EU4DR6040509035-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748817
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-EU4DR6040509035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4384.7 lumens
Efficiency: N/A
Efficacy: 113.3 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

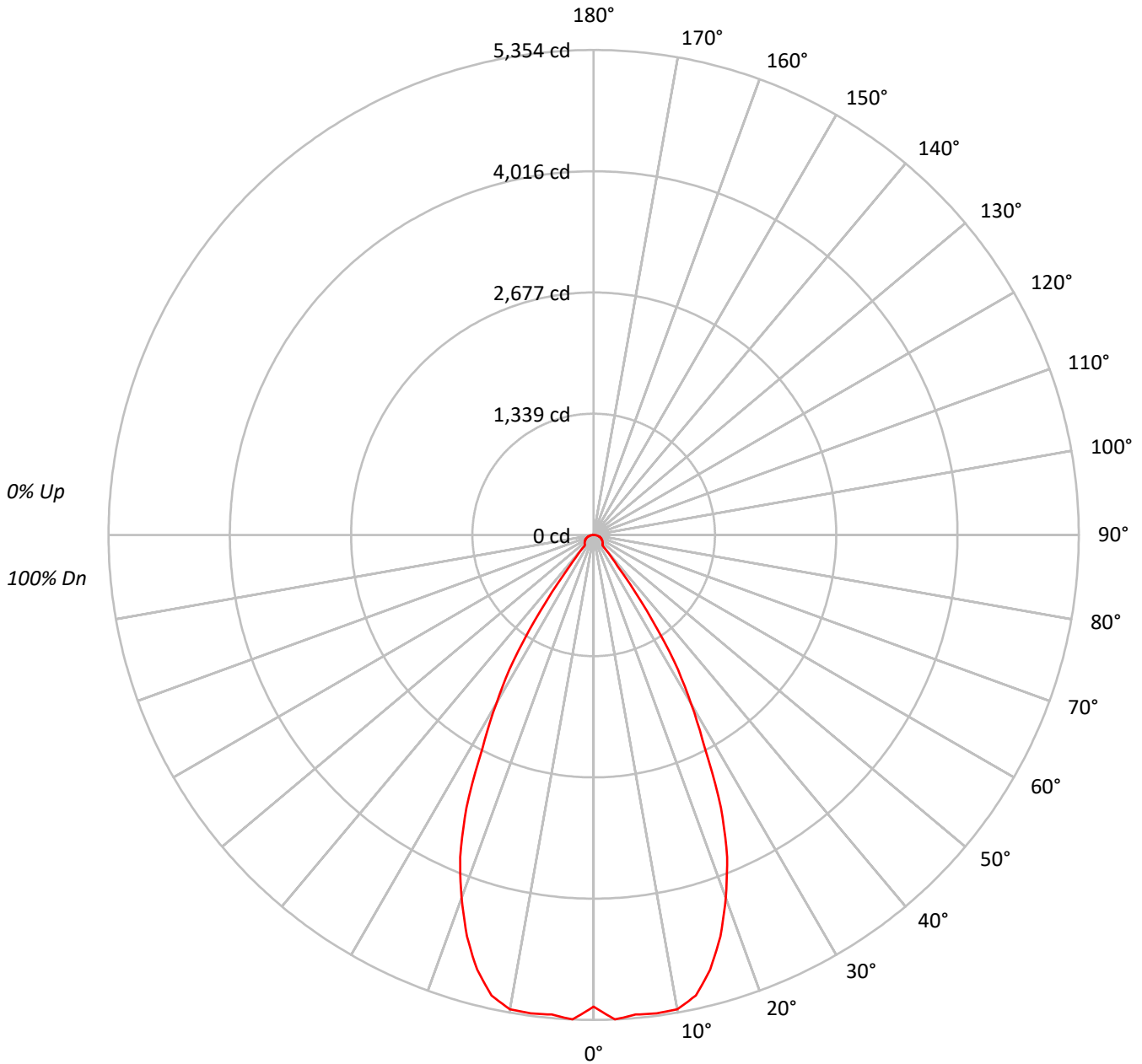
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	568975
5°	582972
10°	590012
15°	562057
20°	495567
25°	400824
30°	271125
35°	135864
40°	22036
45°	21571
50°	21995
55°	22325
60°	22945
65°	23475
70°	24023
75°	24316
80°	23469
85°	19557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 24316 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.0	11.6
10°-20°	1374.4	31.3
20°-30°	1478.8	33.7
30°-40°	642.8	14.7
40°-50°	108.0	2.5
50°-60°	104.9	2.4
60°-70°	89.8	2.0
70°-80°	60.1	1.4
80°-90°	18.0	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°	3361.2	76.7
0°-40°	4004.0	91.3
0°-60°	4216.9	96.2
0°-90°	4384.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4384.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5208	
5°	5315	508
15°	4969	1374
25°	3325	1479
35°	1019	643
45°	140	108
55°	117	105
65°	91	90
75°	58	60
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5207.5
2.5°	5353.9
5°	5315.3
7.5°	5327.5
10°	5318.0
12.5°	5208.2
15°	4968.9
17.5°	4647.7
20°	4262.1
22.5°	3849.4
25°	3324.8
27.5°	2659.3
30°	2149.0
32.5°	1656.3
35°	1018.6
37.5°	435.8
40°	154.5
42.5°	142.3
45°	139.6
47.5°	134.9
50°	129.4
52.5°	123.3
55°	117.2
57.5°	111.1
60°	105.0
62.5°	98.3
65°	90.8
67.5°	83.4
70°	75.2
72.5°	66.4
75°	57.6
77.5°	47.4
80°	37.3
82.5°	26.4
85°	15.6
87.5°	5.4
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)