

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: P747452

Luminaire Tested: LD4D40BD010-EU4DR2540509024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR2540509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.3 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

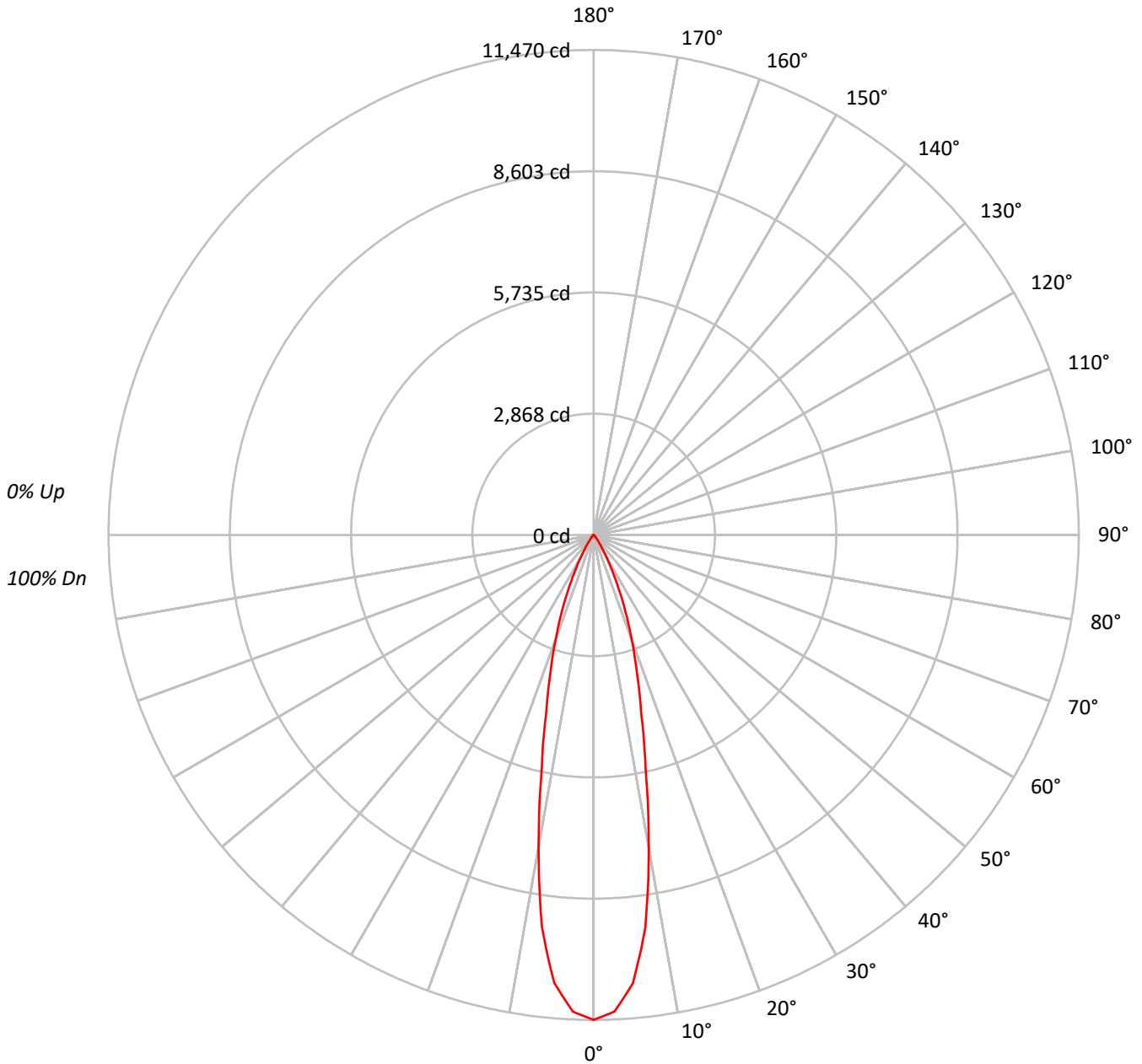
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																																				
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																																				
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																																				
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																																				
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82																																				
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																																				
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77																																				
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																																				
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																																				
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1253275
5°	1167271
10°	832641
15°	490399
20°	305135
25°	167452
30°	76581
35°	28997
40°	13136
45°	7896
50°	3281
55°	2114
60°	1464
65°	1008
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7896 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.7	30.2
10°-20°	1238.8	41.0
20°-30°	655.6	21.7
30°-40°	161.8	5.4
40°-50°	39.5	1.3
50°-60°	10.4	0.3
60°-70°	3.5	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°	2809.1	92.9
0°-40°	2970.9	98.2
0°-60°	3020.8	99.9
0°-90°	3024.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11470	
5°	10643	915
15°	4335	1239
25°	1389	656
35°	217	162
45°	51	39
55°	11	10
65°	4	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11470.5
2.5°	11282.0
5°	10642.7
7.5°	9358.3
10°	7504.9
12.5°	5673.3
15°	4335.4
17.5°	3378.8
20°	2624.3
22.5°	1968.1
25°	1389.0
27.5°	931.5
30°	607.0
32.5°	369.3
35°	217.4
37.5°	133.1
40°	92.1
42.5°	70.4
45°	51.1
47.5°	30.9
50°	19.3
52.5°	14.0
55°	11.1
57.5°	8.7
60°	6.7
62.5°	5.3
65°	3.9
67.5°	1.4
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)