

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: P747996

Luminaire Tested: LD4D40BD010-EU4DR6040509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P747996
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: LD4D40BD010-EU4DR6040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2545.6 lumens
Efficiency: N/A
Efficacy: 72.3 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

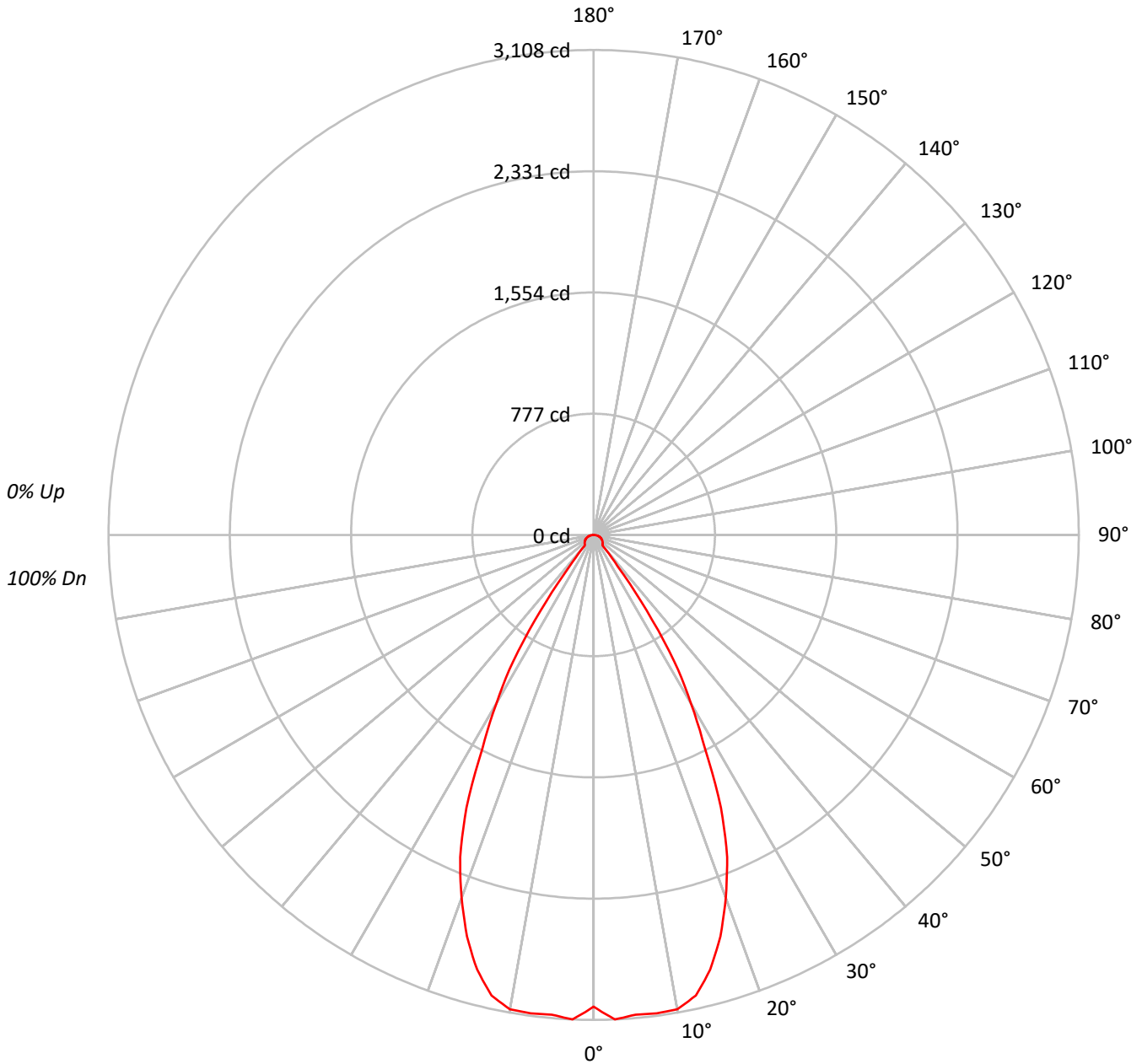
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	330328
5°	338456
10°	342536
15°	326314
20°	287706
25°	232709
30°	157402
35°	78883
40°	12794
45°	12531
50°	12765
55°	12972
60°	13330
65°	13625
70°	13960
75°	14100
80°	13591
85°	11283

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 14100 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	11.6
10°-20°	797.9	31.3
20°-30°	858.5	33.7
30°-40°	373.2	14.7
40°-50°	62.7	2.5
50°-60°	60.9	2.4
60°-70°	52.1	2.0
70°-80°	34.9	1.4
80°-90°	10.4	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°	1951.4	76.7
0°-40°	2324.6	91.3
0°-60°	2448.2	96.2
0°-90°	2545.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3023	
5°	3086	295
15°	2885	798
25°	1930	859
35°	591	373
45°	81	63
55°	68	61
65°	53	52
75°	33	35
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3023.3
2.5°	3108.3
5°	3085.9
7.5°	3092.9
10°	3087.4
12.5°	3023.7
15°	2884.8
17.5°	2698.3
20°	2474.4
22.5°	2234.8
25°	1930.3
27.5°	1543.9
30°	1247.6
32.5°	961.6
35°	591.4
37.5°	253.0
40°	89.7
42.5°	82.6
45°	81.1
47.5°	78.3
50°	75.1
52.5°	71.6
55°	68.1
57.5°	64.5
60°	61.0
62.5°	57.1
65°	52.7
67.5°	48.4
70°	43.7
72.5°	38.6
75°	33.4
77.5°	27.5
80°	21.6
82.5°	15.3
85°	9.0
87.5°	3.1
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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