

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: P748155

Luminaire Tested: LD4D40BD010-EU4DR7040509024-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748155
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: LD4D40BD010-EU4DR7040509024-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2541.5 lumens
Efficiency: N/A
Efficacy: 72.2 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

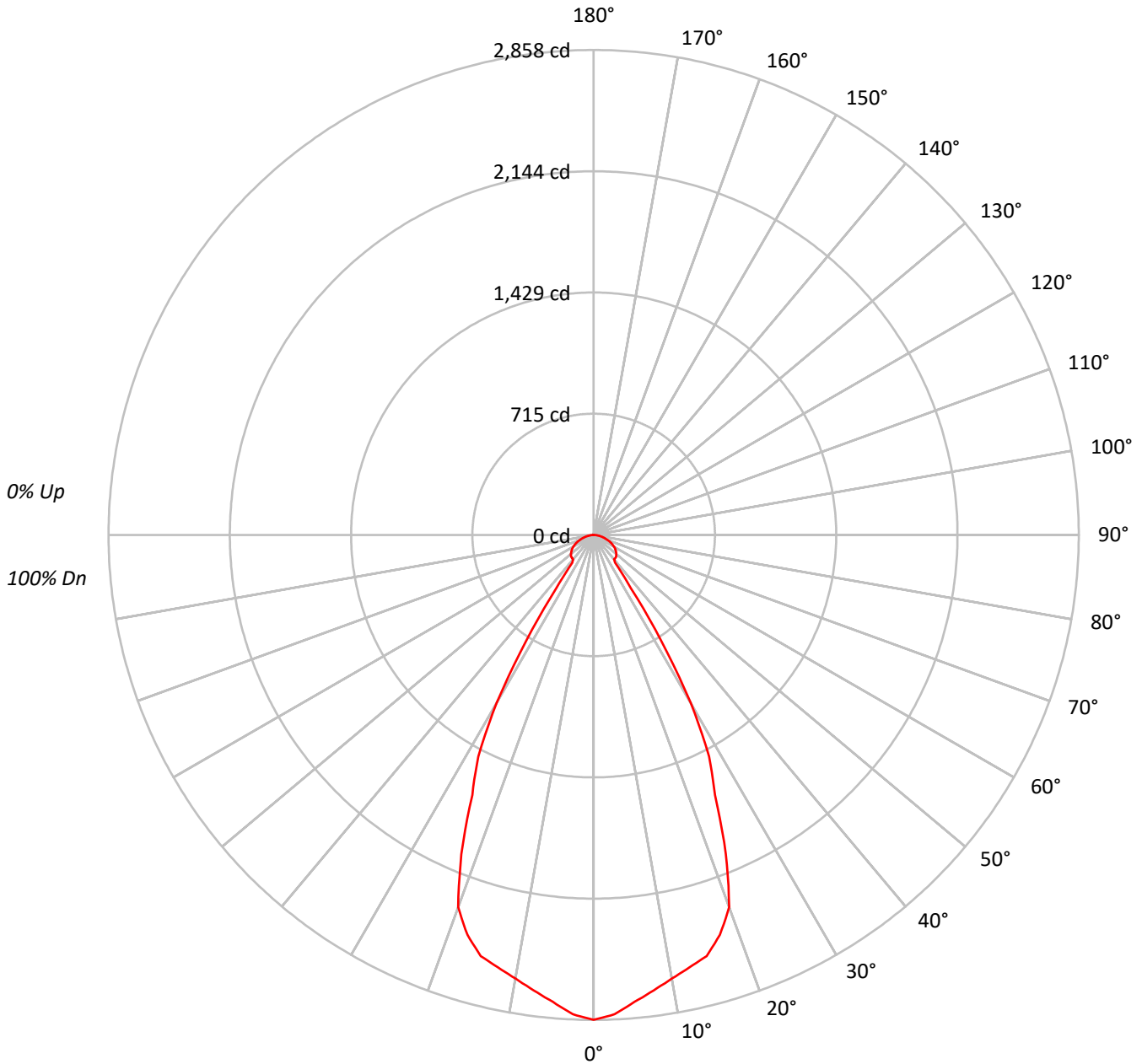
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	312213
5°	302931
10°	294496
15°	290627
20°	271381
25°	203872
30°	144129
35°	51046
40°	26843
45°	28586
50°	29610
55°	30155
60°	30353
65°	29705
70°	28048
75°	25962
80°	23029
85°	18679

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 30360 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	10.3
10°-20°	714.6	28.1
20°-30°	787.0	31.0
30°-40°	300.7	11.8
40°-50°	142.0	5.6
50°-60°	141.1	5.6
60°-70°	113.0	4.4
70°-80°	64.9	2.6
80°-90°	17.7	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°	1762.1	69.3
0°-40°	2062.8	81.2
0°-60°	2346.0	92.3
0°-90°	2541.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2541.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2858	
5°	2762	261
15°	2569	715
25°	1691	787
35°	383	301
45°	185	142
55°	158	141
65°	115	113
75°	62	65
85°	15	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2857.5
2.5°	2827.6
5°	2762.0
7.5°	2707.3
10°	2654.4
12.5°	2609.6
15°	2569.3
17.5°	2472.0
20°	2334.0
22.5°	2036.3
25°	1691.1
27.5°	1472.2
30°	1142.4
32.5°	737.9
35°	382.7
37.5°	206.8
40°	188.2
42.5°	186.8
45°	185.0
47.5°	181.0
50°	174.2
52.5°	166.5
55°	158.3
57.5°	149.3
60°	138.9
62.5°	127.1
65°	114.9
67.5°	101.3
70°	87.8
72.5°	74.2
75°	61.5
77.5°	48.4
80°	36.6
82.5°	25.8
85°	14.9
87.5°	5.9
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)