

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: P748217

Luminaire Tested: LD4D40BD010-EU4DR7040509050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748217
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-EU4DR7040509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2353.7 lumens
Efficiency: N/A
Efficacy: 66.9 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

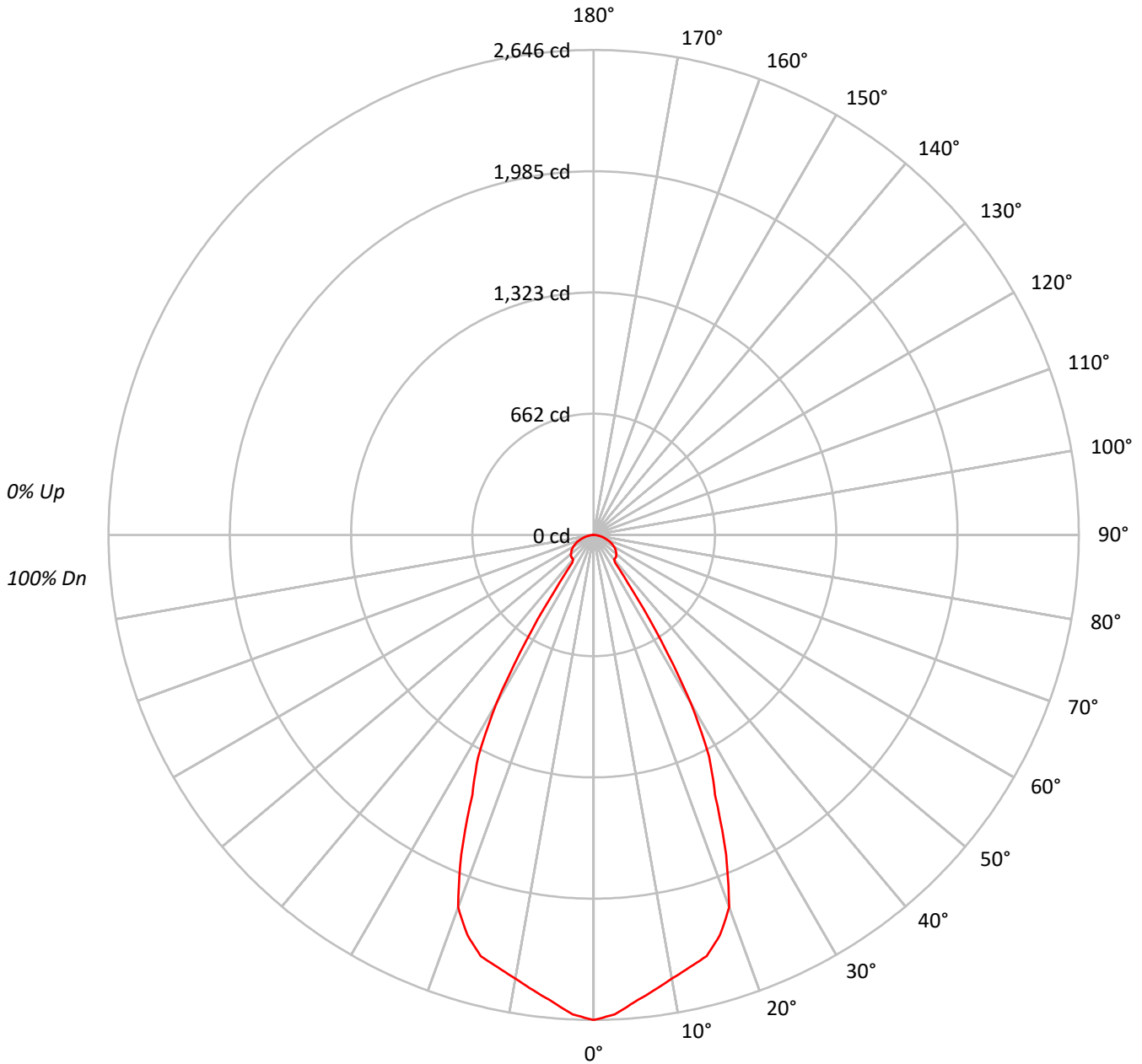
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	289137
5°	280546
10°	272717
15°	269146
20°	251324
25°	188803
30°	133468
35°	47284
40°	24860
45°	26484
50°	27418
55°	27926
60°	28102
65°	27508
70°	25972
75°	24063
80°	21330
85°	17300

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 28124 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	10.3
10°-20°	661.8	28.1
20°-30°	728.8	31.0
30°-40°	278.5	11.8
40°-50°	131.5	5.6
50°-60°	130.7	5.6
60°-70°	104.7	4.4
70°-80°	60.1	2.6
80°-90°	16.3	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°	1631.9	69.3
0°-40°	1910.4	81.2
0°-60°	2172.6	92.3
0°-90°	2353.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2353.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2646	
5°	2558	241
15°	2379	662
25°	1566	729
35°	354	278
45°	171	131
55°	147	131
65°	106	105
75°	57	60
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2646.3
2.5°	2618.6
5°	2557.9
7.5°	2507.2
10°	2458.1
12.5°	2416.7
15°	2379.4
17.5°	2289.3
20°	2161.5
22.5°	1885.8
25°	1566.1
27.5°	1363.4
30°	1057.9
32.5°	683.4
35°	354.5
37.5°	191.5
40°	174.3
42.5°	173.0
45°	171.4
47.5°	167.6
50°	161.3
52.5°	154.2
55°	146.6
57.5°	138.3
60°	128.6
62.5°	117.7
65°	106.4
67.5°	93.9
70°	81.3
72.5°	68.7
75°	57.0
77.5°	44.8
80°	33.9
82.5°	23.9
85°	13.8
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)