

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: P748194

Luminaire Tested: LD4D40BD010-EU4DR7040509035-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748194
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-EU4DR7040509035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2997.3 lumens
Efficiency: N/A
Efficacy: 85.2 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

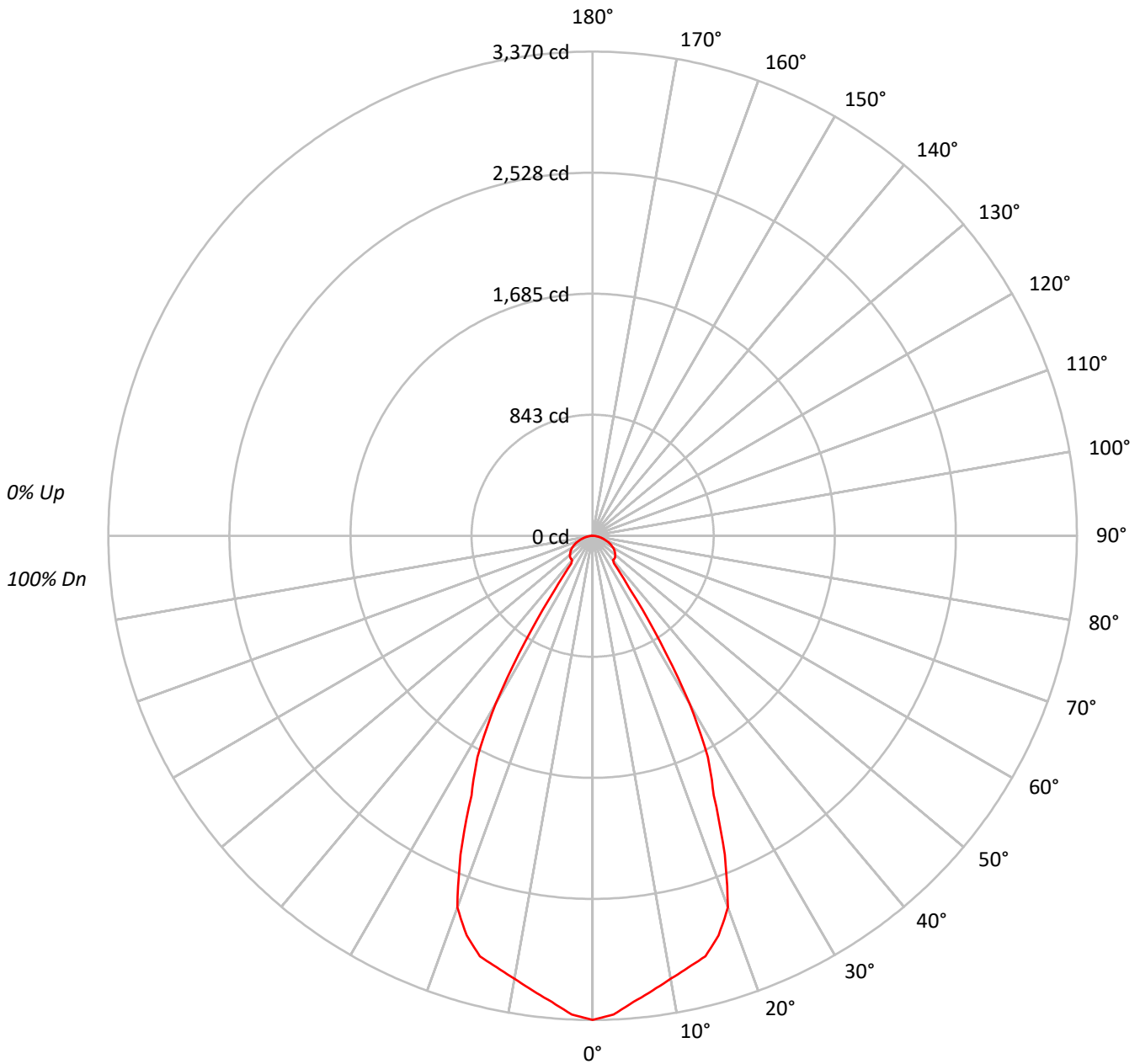


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	368198
5°	357255
10°	347295
15°	342739
20°	320041
25°	240437
30°	169967
35°	60209
40°	31664
45°	33716
50°	34914
55°	35565
60°	35794
65°	35031
70°	33064
75°	30648
80°	27182
85°	22064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 35810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	10.3
10°-20°	842.7	28.1
20°-30°	928.1	31.0
30°-40°	354.6	11.8
40°-50°	167.4	5.6
50°-60°	166.5	5.6
60°-70°	133.3	4.4
70°-80°	76.6	2.6
80°-90°	20.8	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°	2078.1	69.3
0°-40°	2432.7	81.2
0°-60°	2766.6	92.3
0°-90°	2997.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3370	
5°	3257	307
15°	3030	843
25°	1994	928
35°	451	355
45°	218	167
55°	187	166
65°	136	133
75°	73	77
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3369.9
2.5°	3334.6
5°	3257.3
7.5°	3192.7
10°	3130.3
12.5°	3077.5
15°	3030.0
17.5°	2915.3
20°	2752.5
22.5°	2401.5
25°	1994.4
27.5°	1736.1
30°	1347.2
32.5°	870.2
35°	451.4
37.5°	243.8
40°	222.0
42.5°	220.4
45°	218.2
47.5°	213.4
50°	205.4
52.5°	196.3
55°	186.7
57.5°	176.1
60°	163.8
62.5°	149.9
65°	135.5
67.5°	119.5
70°	103.5
72.5°	87.5
75°	72.6
77.5°	57.1
80°	43.2
82.5°	30.4
85°	17.6
87.5°	6.9
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)