

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P749725

Luminaire Tested: LD4D50D010-EU4DR7040509027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749725
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: LD4D50D010-EU4DR7040509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.8 lumens
Efficiency: N/A
Efficacy: 58.7 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

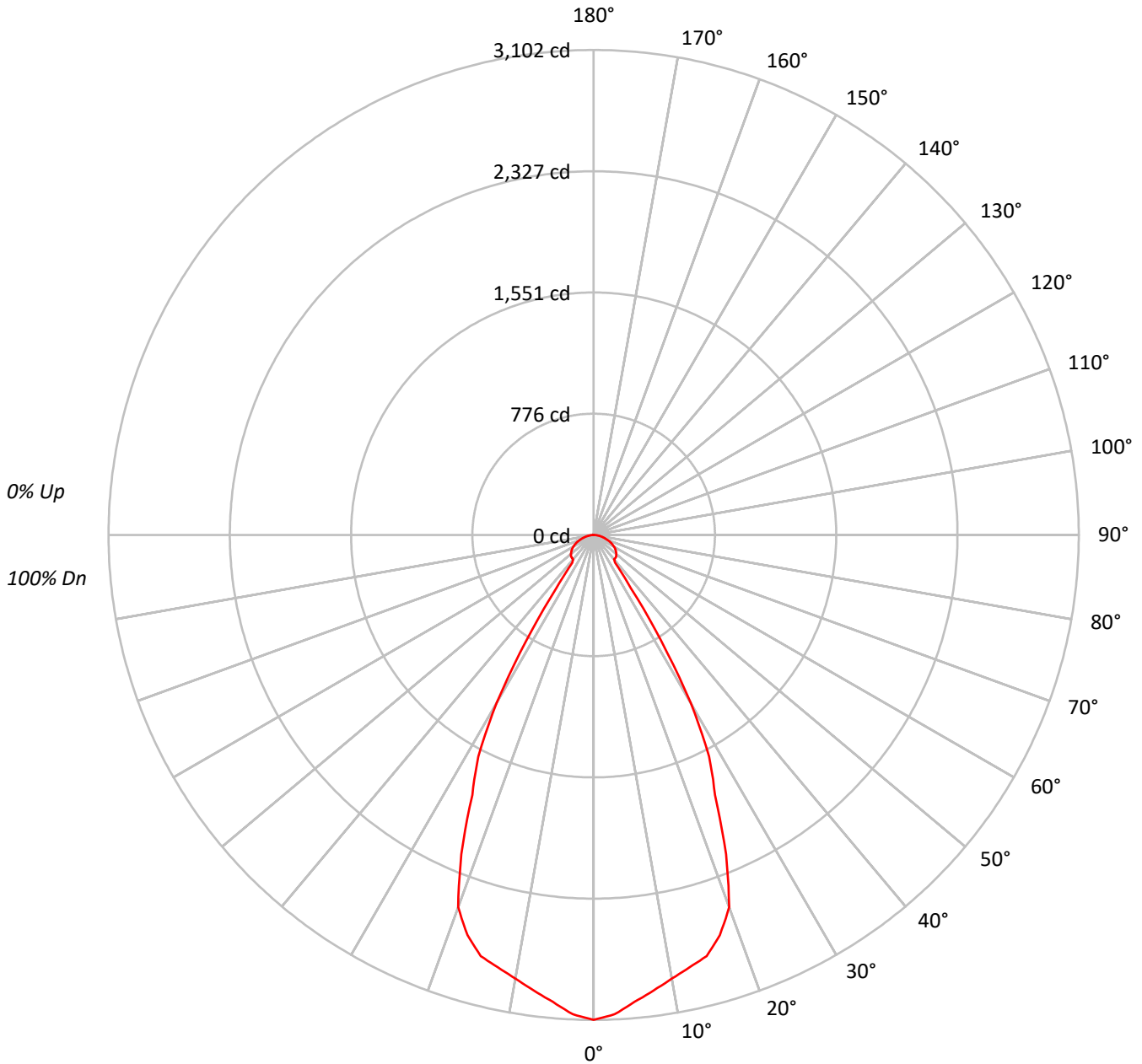
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	338894
5°	328826
10°	319658
15°	315467
20°	294577
25°	221304
30°	156443
35°	55421
40°	29139
45°	31043
50°	32143
55°	32745
60°	32953
65°	32239
70°	30444
75°	28200
80°	25042
85°	20309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 32963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	10.3
10°-20°	775.7	28.1
20°-30°	854.3	31.0
30°-40°	326.4	11.8
40°-50°	154.1	5.6
50°-60°	153.2	5.6
60°-70°	122.7	4.4
70°-80°	70.5	2.6
80°-90°	19.2	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°	1912.7	69.3
0°-40°	2239.1	81.2
0°-60°	2546.5	92.3
0°-90°	2758.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3102	
5°	2998	283
15°	2789	776
25°	1836	854
35°	416	326
45°	201	154
55°	172	153
65°	125	123
75°	67	70
85°	16	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3101.7
2.5°	3069.3
5°	2998.1
7.5°	2938.7
10°	2881.2
12.5°	2832.6
15°	2788.9
17.5°	2683.3
20°	2533.5
22.5°	2210.4
25°	1835.7
27.5°	1598.0
30°	1240.0
32.5°	801.0
35°	415.5
37.5°	224.4
40°	204.3
42.5°	202.8
45°	200.9
47.5°	196.4
50°	189.1
52.5°	180.7
55°	171.9
57.5°	162.1
60°	150.8
62.5°	138.0
65°	124.7
67.5°	110.0
70°	95.3
72.5°	80.5
75°	66.8
77.5°	52.5
80°	39.8
82.5°	28.0
85°	16.2
87.5°	6.4
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)