

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: P749636

Luminaire Tested: LD4D50D010-EU4DR6540509024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR6540509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3815.4 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

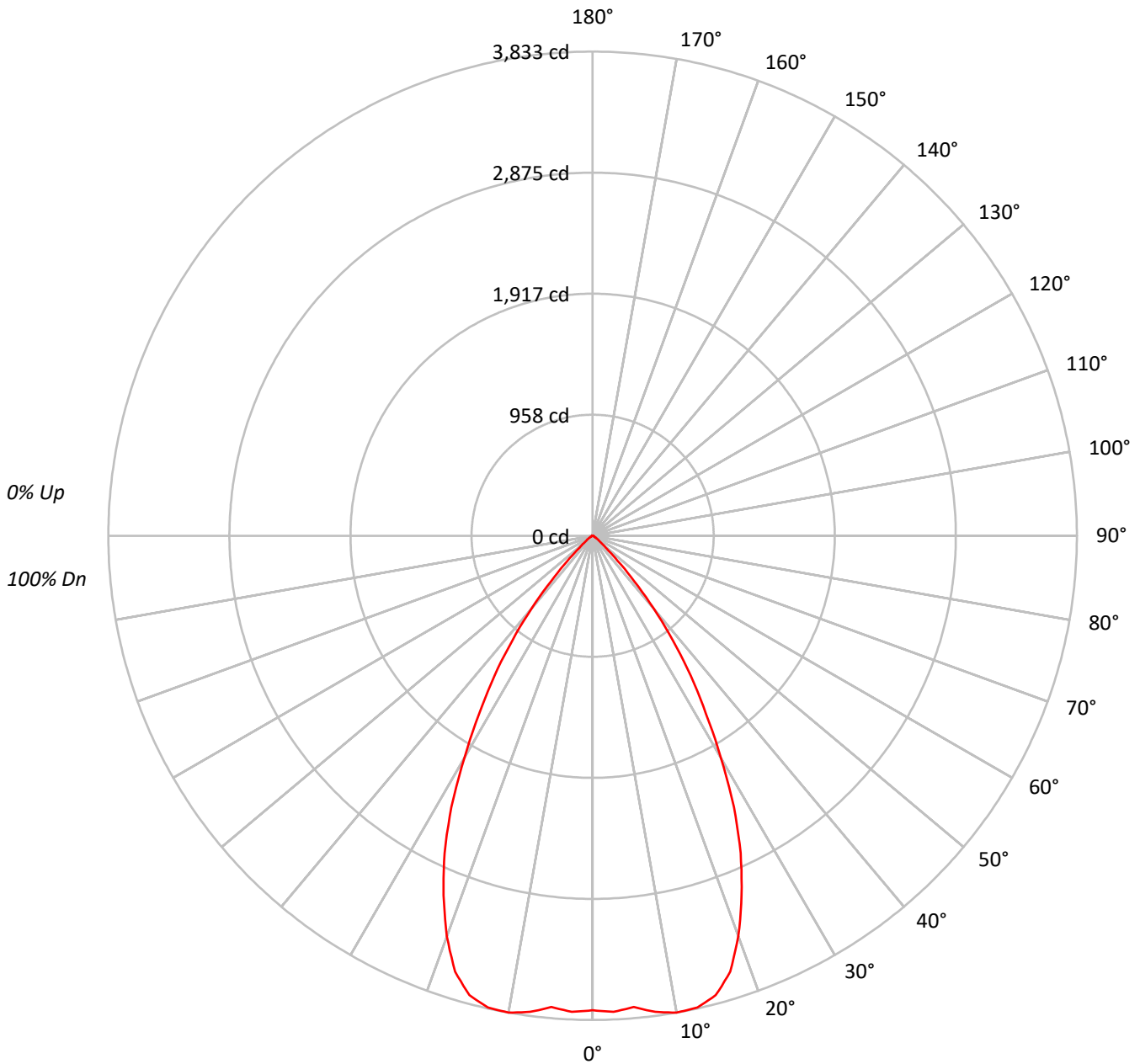
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	410438
5°	410777
10°	425246
15°	425946
20°	392153
25°	334133
30°	255796
35°	180707
40°	106673
45°	43311
50°	15706
55°	8744
60°	5026
65°	2766
70°	2907
75°	2237
80°	2328
85°	2006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.7	9.5
10°-20°	1043.4	27.3
20°-30°	1251.9	32.8
30°-40°	841.3	22.1
40°-50°	251.9	6.6
50°-60°	44.5	1.2
60°-70°	12.6	0.3
70°-80°	6.2	0.2
80°-90°	2.0	0.1
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°	2657.0	69.6
0°-40°	3498.3	91.7
0°-60°	3794.6	99.5
0°-90°	3815.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3815.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3756	
5°	3745	362
15°	3766	1043
25°	2772	1252
35°	1355	841
45°	280	252
55°	46	44
65°	11	13
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3756.5
2.5°	3772.5
5°	3745.3
7.5°	3801.9
10°	3832.9
12.5°	3825.4
15°	3765.6
17.5°	3619.3
20°	3372.7
22.5°	3082.3
25°	2771.6
27.5°	2420.9
30°	2027.5
32.5°	1670.9
35°	1354.8
37.5°	1042.6
40°	747.9
42.5°	488.4
45°	280.3
47.5°	148.4
50°	92.4
52.5°	64.1
55°	45.9
57.5°	33.1
60°	23.0
62.5°	14.9
65°	10.7
67.5°	9.6
70°	9.1
72.5°	6.9
75°	5.3
77.5°	4.8
80°	3.7
82.5°	2.7
85°	1.6
87.5°	1.1
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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(END OF REPORT)