

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: P750459

Luminaire Tested: LD4D55D010-EU4DR6555659035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P750459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR6555659035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5354.9 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

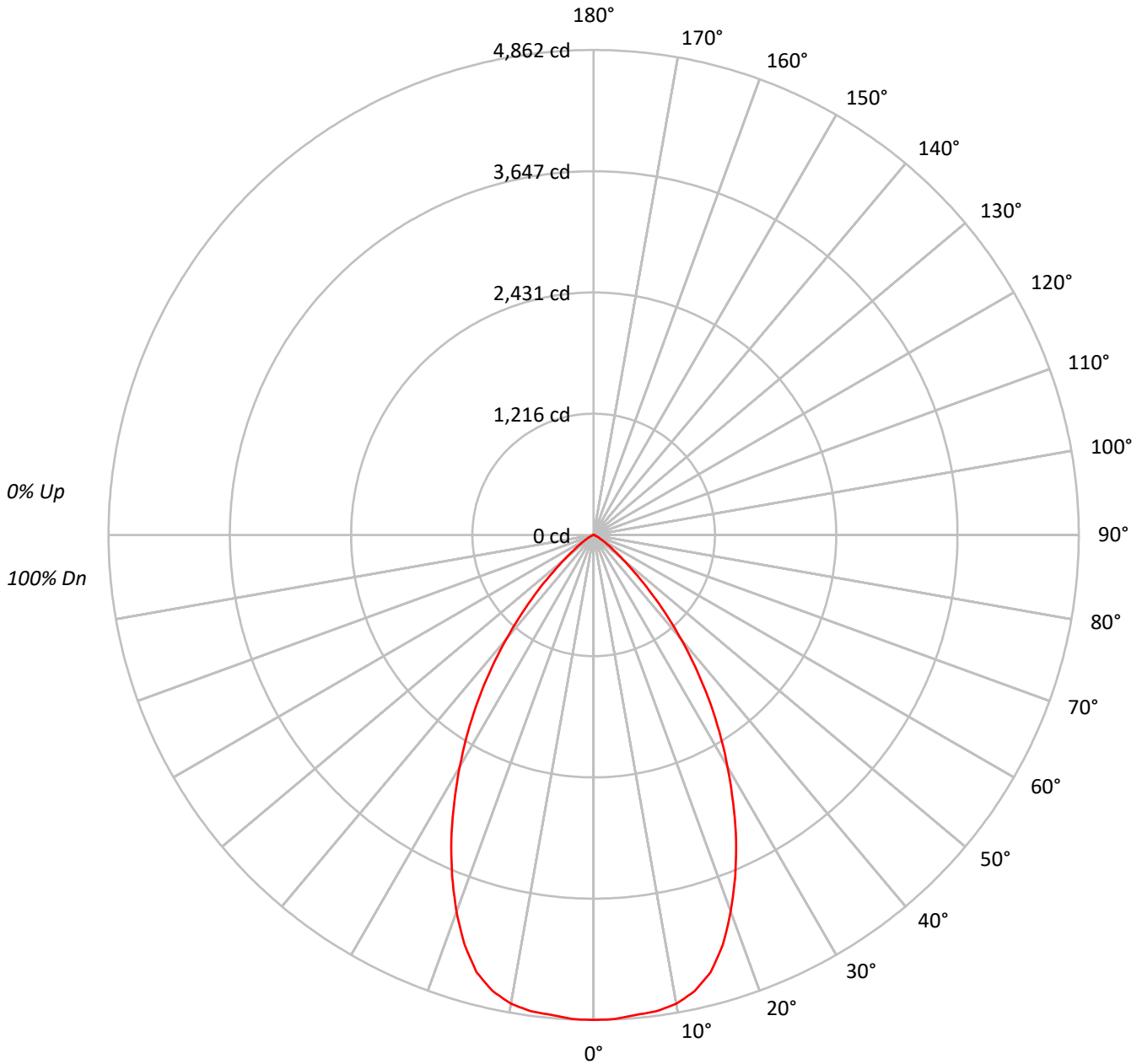
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61															
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56				56															
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52				52															
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49															
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	283965
5°	283250
10°	283009
15°	274283
20°	249702
25°	217600
30°	180979
35°	143402
40°	103497
45°	65391
50°	34082
55°	18114
60°	9520
65°	5238
70°	2203
75°	2415
80°	1682
85°	1407

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 65391 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.8	8.6
10°-20°	1259.1	23.5
20°-30°	1539.1	28.7
30°-40°	1248.7	23.3
40°-50°	622.3	11.6
50°-60°	173.6	3.2
60°-70°	39.5	0.7
70°-80°	10.2	0.2
80°-90°	2.6	0.0
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°	3258.0	60.8
0°-40°	4506.7	84.2
0°-60°	5302.6	99.0
0°-90°	5354.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5354.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4862	
5°	4831	460
15°	4536	1259
25°	3377	1539
35°	2011	1249
45°	792	622
55°	178	174
65°	38	39
75°	11	10
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4862.1
2.5°	4858.5
5°	4831.4
7.5°	4815.7
10°	4772.1
12.5°	4683.5
15°	4536.3
17.5°	4306.2
20°	4017.6
22.5°	3706.1
25°	3376.7
27.5°	3024.4
30°	2683.6
32.5°	2347.1
35°	2011.3
37.5°	1676.2
40°	1357.5
42.5°	1058.9
45°	791.7
47.5°	551.6
50°	375.1
52.5°	258.6
55°	177.9
57.5°	120.0
60°	81.5
62.5°	56.4
65°	37.9
67.5°	19.3
70°	12.9
72.5°	12.1
75°	10.7
77.5°	7.1
80°	5.0
82.5°	3.6
85°	2.1
87.5°	1.4
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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