

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: P743115

Luminaire Tested: LD4D15D010-EU4DR300215IC9024-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR300215IC9024-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 961.9 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V): NR
Input Current (Ain): 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

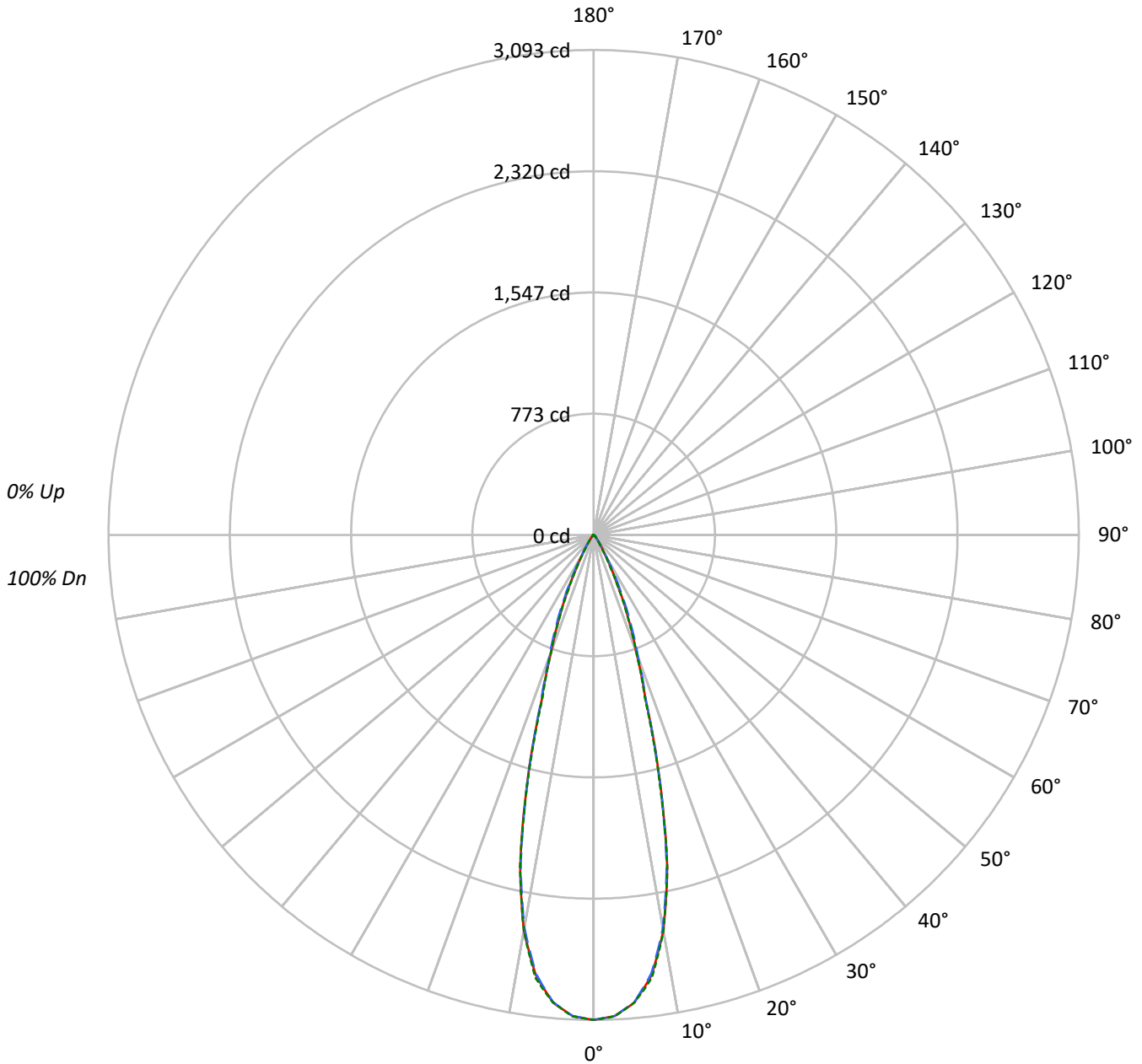


Downlight



TEST NUMBER: P743115
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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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	236733	236733	236733
5°	229939	229670	229954
10°	199168	197761	199114
15°	129944	129246	128596
20°	64619	67038	64529
25°	32549	36705	31882
30°	13028	14203	11357
35°	6046	5784	4850
40°	2608	2898	2458
45°	1840	2284	1851
50°	631	1667	667
55°	374	694	387
60°	260	291	260
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2284 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.0	28.3
10°-20°	438.0	45.5
20°-30°	189.3	19.7
30°-40°	43.1	4.5
40°-50°	14.8	1.5
50°-60°	3.6	0.4
60°-70°	0.9	0.1
70°-80°	0.1	0.0
80°-90°	0.0	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°	899.3	93.5
0°-40°	942.4	98.0
0°-60°	960.8	99.9
0°-90°	961.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3093	3093	3093	3093	3093	
5°	2993	2990	2989	2995	2993	272
15°	1640	1620	1631	1626	1623	439
25°	385	400	435	390	378	184
35°	65	66	62	62	52	44
45°	17	21	21	21	17	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3092.8	3092.8	3092.8	3092.8	3092.8
2.5°	3072.3	3070.2	3071.4	3073.0	3073.5
5°	2992.6	2989.7	2989.1	2995.3	2992.8
7.5°	2831.8	2827.7	2821.5	2835.6	2848.8
10°	2562.5	2557.9	2544.4	2551.1	2561.8
12.5°	2164.7	2150.0	2149.7	2171.0	2168.1
15°	1639.8	1620.1	1631.0	1625.7	1622.8
17.5°	1102.7	1095.1	1109.7	1105.3	1086.3
20°	793.3	795.3	823.0	809.1	792.2
22.5°	578.9	586.0	619.0	582.9	569.7
25°	385.4	400.0	434.6	389.8	377.5
27.5°	237.0	243.7	278.8	234.0	227.3
30°	147.4	144.1	160.7	137.9	128.5
32.5°	96.7	92.5	97.8	87.8	80.2
35°	64.7	66.1	61.9	61.5	51.9
37.5°	40.4	46.5	41.0	43.7	33.4
40°	26.1	33.7	29.0	32.0	24.6
42.5°	21.4	26.0	23.8	25.4	21.9
45°	17.0	21.1	21.1	21.1	17.1
47.5°	9.4	14.1	18.0	14.4	10.0
50°	5.3	7.2	14.0	7.4	5.6
52.5°	3.7	4.1	9.6	4.2	3.8
55°	2.8	2.9	5.2	3.0	2.9
57.5°	2.1	2.3	2.8	2.3	2.1
60°	1.7	1.7	1.9	1.8	1.7
62.5°	1.2	1.2	1.4	1.2	1.2
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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