

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: P745050

Luminaire Tested: LD4D25D010-EU4DR3020359027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745050
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: LD4D25D010-EU4DR3020359027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2372.1 lumens
Efficiency: N/A
Efficacy: 94.5 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): 25.1
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

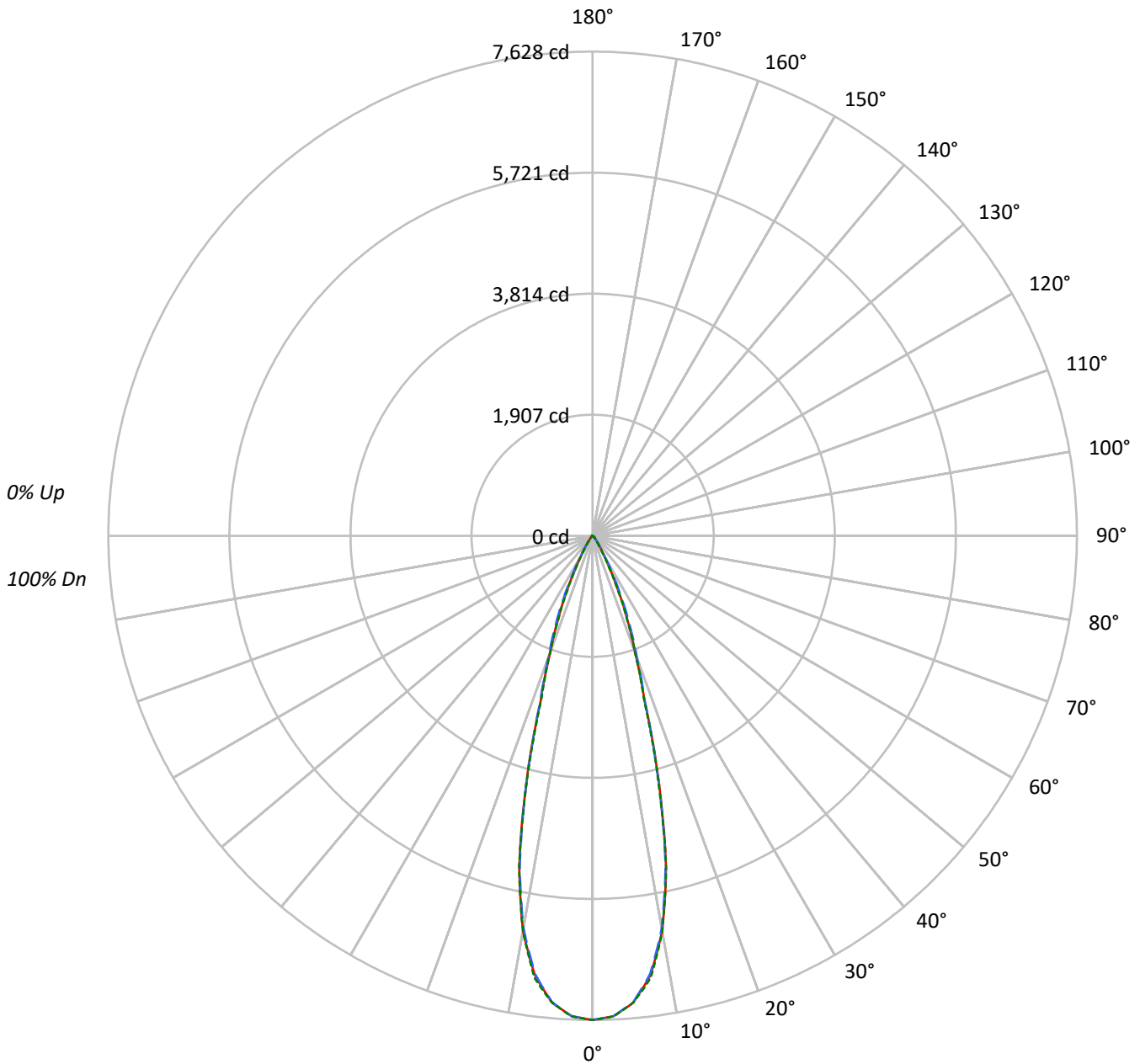


Downlight



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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	583835	583835	583835
5°	567079	566418	567102
10°	491170	487704	491054
15°	320469	318741	317141
20°	159352	165331	159140
25°	80276	90520	78629
30°	32146	35018	28000
35°	14904	14278	11970
40°	6435	7144	6065
45°	4536	5640	4579
50°	1560	4096	1655
55°	907	1695	947
60°	628	750	628
65°	398	398	398
70°	246	157	246
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5640 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.7	28.3
10°-20°	1080.2	45.5
20°-30°	466.8	19.7
30°-40°	106.4	4.5
40°-50°	36.5	1.5
50°-60°	8.9	0.4
60°-70°	2.3	0.1
70°-80°	0.2	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°	2217.7	93.5
0°-40°	2324.1	98.0
0°-60°	2369.6	99.9
0°-90°	2372.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2372.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7628	7628	7628	7628	7628	
5°	7380	7373	7372	7387	7381	671
15°	4044	3995	4022	4009	4002	1083
25°	950	986	1072	961	931	455
35°	160	163	153	152	128	108
45°	42	52	52	52	42	30
55°	7	7	13	8	7	7
65°	2	2	2	2	2	2
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°	7627.5	7627.5	7627.5	7627.5	7627.5
2.5°	7576.9	7571.7	7574.7	7578.4	7580.0
5°	7380.4	7373.2	7371.8	7387.1	7380.7
7.5°	6983.8	6973.7	6958.3	6993.2	7025.7
10°	6319.4	6308.2	6274.8	6291.3	6317.9
12.5°	5338.6	5302.3	5301.6	5354.0	5346.9
15°	4044.1	3995.4	4022.3	4009.2	4002.1
17.5°	2719.5	2700.8	2736.8	2725.9	2679.1
20°	1956.3	1961.2	2029.7	1995.2	1953.7
22.5°	1427.6	1445.2	1526.4	1437.6	1405.0
25°	950.5	986.4	1071.8	961.3	931.0
27.5°	584.6	601.0	687.5	577.1	560.6
30°	363.7	355.4	396.2	340.0	316.8
32.5°	238.5	228.0	241.2	216.5	197.7
35°	159.5	162.9	152.8	151.7	128.1
37.5°	99.6	114.6	101.1	107.8	82.4
40°	64.4	83.1	71.5	79.0	60.7
42.5°	52.8	64.1	58.8	62.6	53.9
45°	41.9	52.1	52.1	52.1	42.3
47.5°	23.2	34.8	44.6	35.6	24.7
50°	13.1	17.6	34.4	18.3	13.9
52.5°	9.0	10.1	23.6	10.5	9.3
55°	6.8	7.1	12.7	7.5	7.1
57.5°	5.3	5.6	6.8	5.6	5.3
60°	4.1	4.1	4.9	4.5	4.1
62.5°	3.0	3.0	3.4	3.0	3.0
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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