

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: P745999

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745999
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: LD4D30D010-EU4DR3020359030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2753.0 lumens
Efficiency: N/A
Efficacy: 94.9 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): 29
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

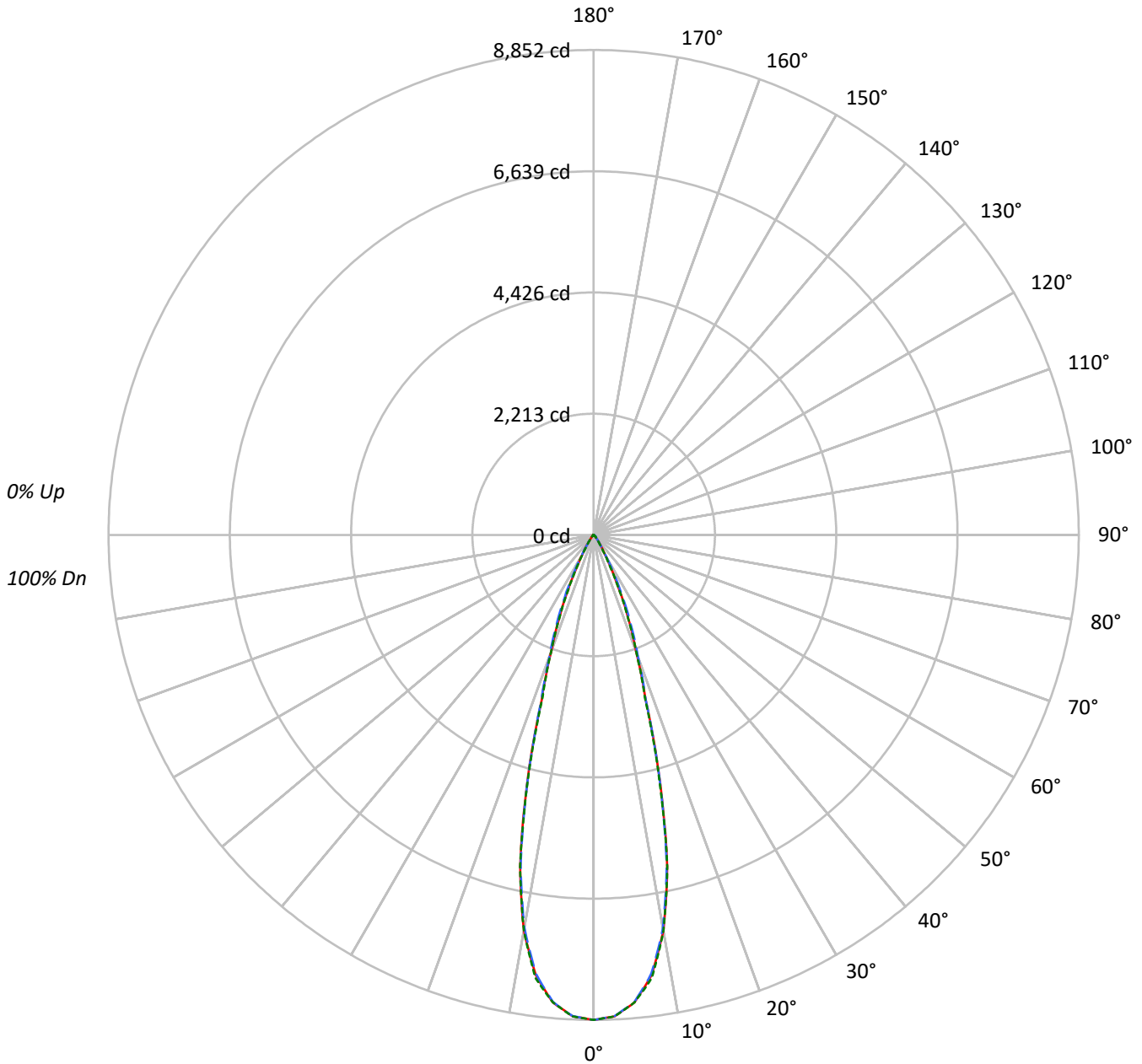


Downlight



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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°	677570	677570	677570
5°	658122	657353	658152
10°	570037	566011	569897
15°	371914	369925	368063
20°	184937	191877	184685
25°	93155	105055	91247
30°	37298	40639	32499
35°	17296	16567	13886
40°	7474	8293	7034
45°	5272	6538	5315
50°	1810	4763	1917
55°	1041	1975	1108
60°	735	873	735
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6538 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.4	28.3
10°-20°	1253.6	45.5
20°-30°	541.7	19.7
30°-40°	123.5	4.5
40°-50°	42.4	1.5
50°-60°	10.4	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2573.8	93.5
0°-40°	2697.2	98.0
0°-60°	2750.0	99.9
0°-90°	2753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8852	8852	8852	8852	8852	
5°	8565	8557	8555	8573	8566	779
15°	4693	4637	4668	4653	4645	1257
25°	1103	1145	1244	1116	1080	528
35°	185	189	177	176	149	126
45°	49	60	60	60	49	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8852.1	8852.1	8852.1	8852.1	8852.1
2.5°	8793.5	8787.4	8790.8	8795.2	8796.9
5°	8565.3	8557.0	8555.3	8573.1	8565.7
7.5°	8105.0	8093.3	8075.5	8115.9	8153.7
10°	7334.1	7321.0	7282.3	7301.5	7332.3
12.5°	6195.8	6153.7	6152.7	6213.6	6205.3
15°	4693.3	4636.8	4668.2	4652.9	4644.7
17.5°	3156.2	3134.4	3176.2	3163.5	3109.2
20°	2270.4	2276.0	2355.6	2315.6	2267.3
22.5°	1656.7	1677.1	1771.4	1668.5	1630.7
25°	1103.0	1144.8	1243.9	1115.6	1080.4
27.5°	678.4	697.6	797.9	669.7	650.6
30°	422.0	412.5	459.8	394.6	367.7
32.5°	276.8	264.7	279.9	251.2	229.5
35°	185.1	189.1	177.3	176.0	148.6
37.5°	115.6	133.0	117.3	125.2	95.6
40°	74.8	96.5	83.0	91.7	70.4
42.5°	61.3	74.3	68.2	72.6	62.6
45°	48.7	60.4	60.4	60.4	49.1
47.5°	26.9	40.4	51.7	41.3	28.7
50°	15.2	20.5	40.0	21.3	16.1
52.5°	10.4	11.7	27.4	12.1	10.9
55°	7.8	8.3	14.8	8.7	8.3
57.5°	6.1	6.5	7.8	6.5	6.1
60°	4.8	4.8	5.7	5.2	4.8
62.5°	3.5	3.5	3.9	3.5	3.5
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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