

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: P745061

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745061
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-EU4DR3020359030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2075.7 lumens
Efficiency: N/A
Efficacy: 82.7 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

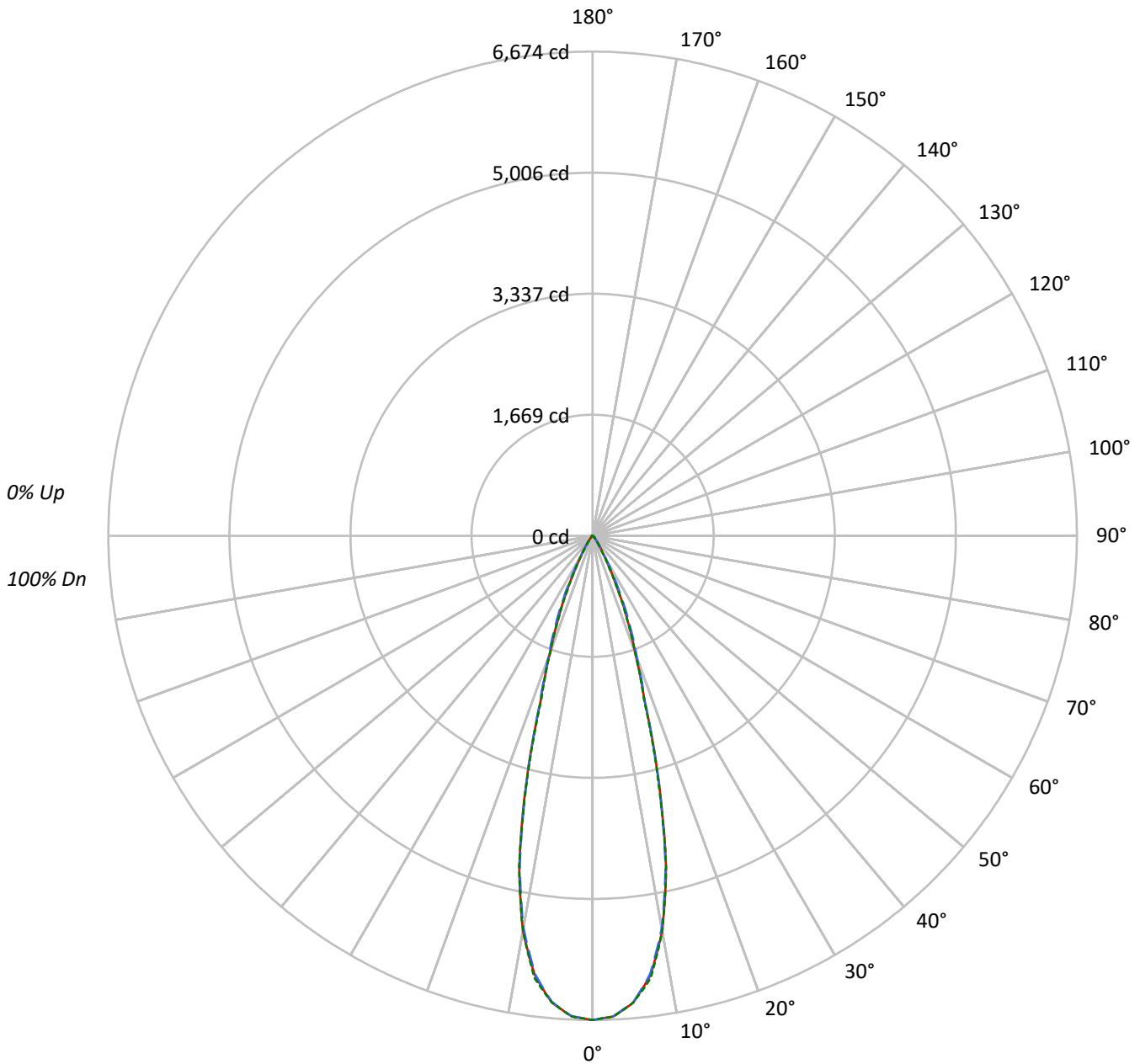


Downlight



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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	87	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°	510881	510881	510881
5°	496213	495637	496244
10°	429799	426768	429698
15°	280419	278921	277511
20°	139444	144674	139257
25°	70242	79212	68798
30°	28124	30643	24509
35°	13045	12493	10475
40°	5636	6255	5306
45°	3973	4925	4005
50°	1369	3584	1441
55°	787	1481	827
60°	551	643	551
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4925 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.9	28.3
10°-20°	945.2	45.5
20°-30°	408.5	19.7
30°-40°	93.1	4.5
40°-50°	32.0	1.5
50°-60°	7.8	0.4
60°-70°	2.0	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°	1940.6	93.5
0°-40°	2033.7	98.0
0°-60°	2073.5	99.9
0°-90°	2075.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2075.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6674	6674	6674	6674	6674	
5°	6458	6452	6451	6464	6458	587
15°	3539	3496	3520	3508	3502	948
25°	832	863	938	841	815	398
35°	140	143	134	133	112	95
45°	37	46	46	46	37	26
55°	6	6	11	6	6	6
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°	6674.4	6674.4	6674.4	6674.4	6674.4
2.5°	6630.2	6625.6	6628.2	6631.5	6632.8
5°	6458.1	6451.9	6450.6	6464.0	6458.5
7.5°	6111.1	6102.3	6088.8	6119.3	6147.8
10°	5529.8	5520.0	5490.8	5505.2	5528.5
12.5°	4671.6	4639.8	4639.1	4685.0	4678.8
15°	3538.7	3496.1	3519.8	3508.2	3502.0
17.5°	2379.7	2363.3	2394.8	2385.3	2344.3
20°	1711.9	1716.1	1776.1	1746.0	1709.6
22.5°	1249.1	1264.6	1335.7	1258.0	1229.5
25°	831.7	863.2	937.9	841.2	814.6
27.5°	511.5	526.0	601.7	505.0	490.6
30°	318.2	311.0	346.7	297.5	277.3
32.5°	208.7	199.6	211.0	189.4	173.0
35°	139.6	142.6	133.7	132.7	112.1
37.5°	87.1	100.3	88.5	94.4	72.1
40°	56.4	72.8	62.6	69.2	53.1
42.5°	46.2	56.0	51.5	54.7	47.2
45°	36.7	45.5	45.5	45.5	37.0
47.5°	20.3	30.5	39.0	31.1	21.6
50°	11.5	15.4	30.1	16.0	12.1
52.5°	7.8	8.8	20.6	9.2	8.2
55°	5.9	6.2	11.1	6.5	6.2
57.5°	4.6	4.9	5.9	4.9	4.6
60°	3.6	3.6	4.2	4.0	3.6
62.5°	2.6	2.6	2.9	2.6	2.6
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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