

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: P746764

Luminaire Tested: LD4D35BD010-EU4DR3020359027-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746764
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: LD4D35BD010-EU4DR3020359027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2702.1 lumens
Efficiency: N/A
Efficacy: 87.7 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): 30.8
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

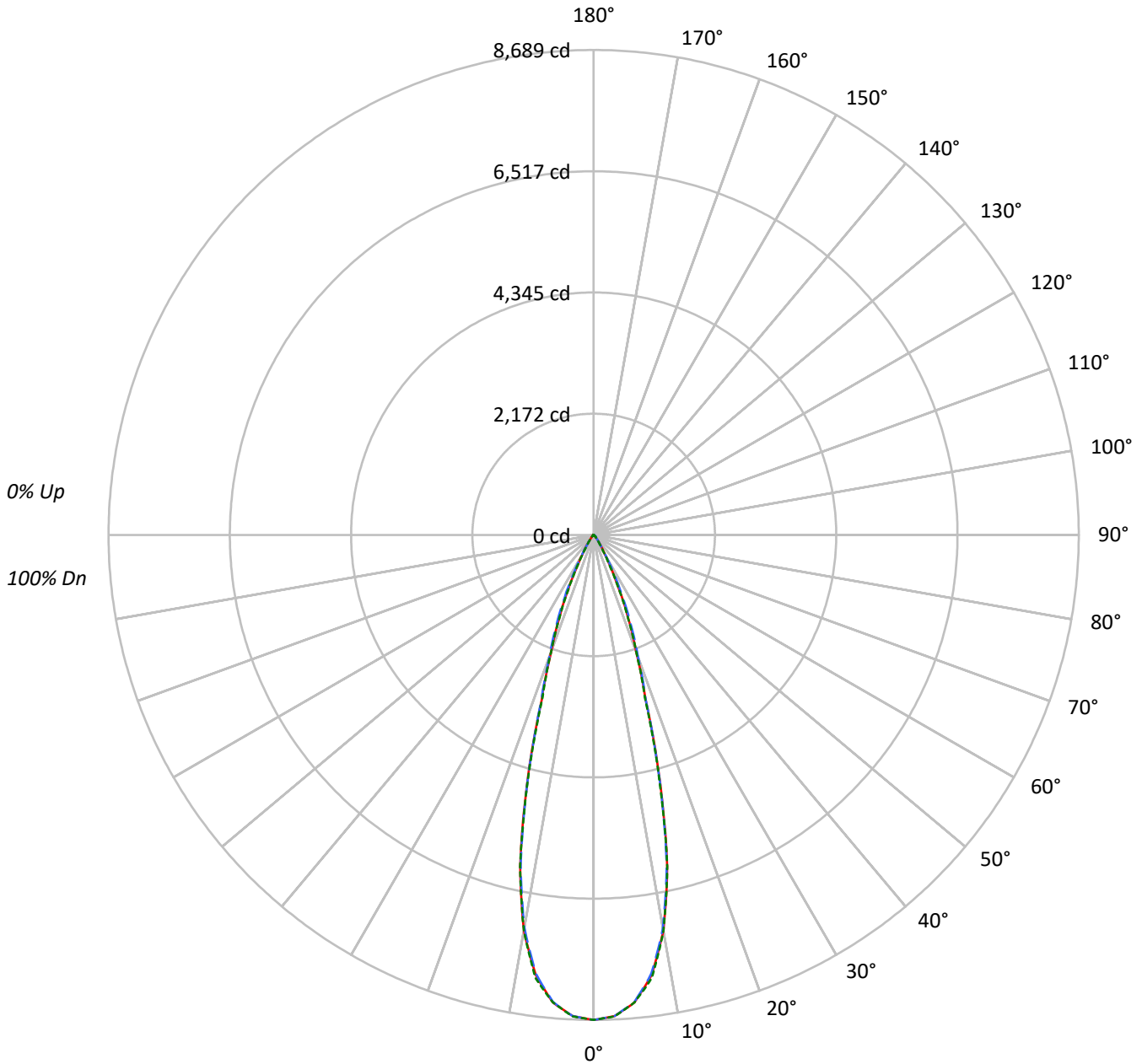


Downlight

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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°	665063	665063	665063
5°	645966	645213	646004
10°	559505	555557	559373
15°	365051	363086	361263
20°	181524	188334	181280
25°	91441	103113	89566
30°	36609	39888	31898
35°	16978	16259	13633
40°	7334	8144	6904
45°	5174	6419	5218
50°	1774	4668	1881
55°	1028	1935	1081
60°	720	842	720
65°	471	471	471
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.0	28.3
10°-20°	1230.5	45.5
20°-30°	531.7	19.7
30°-40°	121.2	4.5
40°-50°	41.6	1.5
50°-60°	10.2	0.4
60°-70°	2.6	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°	2526.3	93.5
0°-40°	2647.4	98.0
0°-60°	2699.2	99.9
0°-90°	2702.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2702.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8689	8689	8689	8689	8689	
5°	8407	8399	8397	8415	8408	765
15°	4607	4551	4582	4567	4559	1234
25°	1083	1124	1221	1095	1060	518
35°	182	186	174	173	146	123
45°	48	59	59	59	48	34
55°	8	8	14	8	8	7
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8688.7	8688.7	8688.7	8688.7	8688.7
2.5°	8631.1	8625.1	8628.5	8632.8	8634.5
5°	8407.1	8399.0	8397.3	8414.8	8407.6
7.5°	7955.4	7943.9	7926.4	7966.0	8003.2
10°	7198.6	7185.8	7147.8	7166.6	7196.9
12.5°	6081.4	6040.0	6039.2	6098.9	6090.8
15°	4606.7	4551.2	4581.9	4567.0	4558.9
17.5°	3097.9	3076.5	3117.5	3105.1	3051.8
20°	2228.5	2234.0	2312.1	2272.8	2225.5
22.5°	1626.1	1646.2	1738.8	1637.7	1600.5
25°	1082.7	1123.6	1220.9	1095.0	1060.5
27.5°	665.9	684.7	783.2	657.4	638.6
30°	414.2	404.8	451.3	387.3	360.9
32.5°	271.7	259.8	274.7	246.6	225.2
35°	181.7	185.6	174.0	172.8	145.9
37.5°	113.5	130.5	115.2	122.9	93.8
40°	73.4	94.7	81.5	90.0	69.1
42.5°	60.1	72.9	67.0	71.2	61.4
45°	47.8	59.3	59.3	59.3	48.2
47.5°	26.4	39.7	50.8	40.5	28.2
50°	14.9	20.0	39.2	20.9	15.8
52.5°	10.2	11.5	26.9	11.9	10.7
55°	7.7	8.1	14.5	8.5	8.1
57.5°	6.0	6.4	7.7	6.4	6.0
60°	4.7	4.7	5.5	5.1	4.7
62.5°	3.4	3.4	3.8	3.4	3.4
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	0.4	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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