

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: P745074

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745074
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-EU4DR3020359035-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2191.3 lumens
Efficiency: N/A
Efficacy: 87.3 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

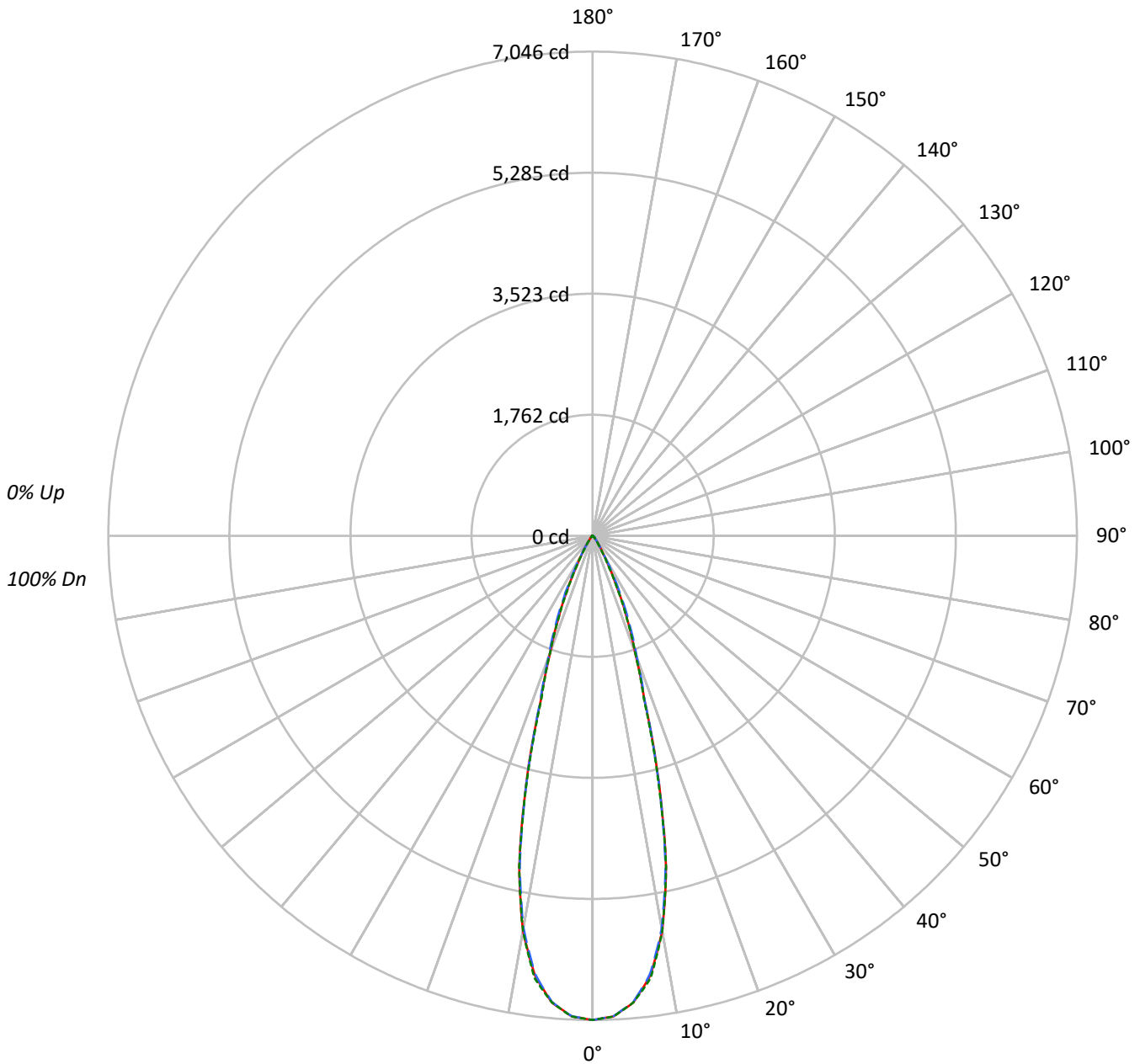


Downlight



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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°	539325	539325	539325
5°	523843	523229	523874
10°	453731	450528	453614
15°	296038	294445	292963
20°	147199	152730	147003
25°	74153	83620	72632
30°	29688	32349	25870
35°	13773	13185	11054
40°	5945	6605	5596
45°	4189	5207	4233
50°	1441	3787	1524
55°	827	1561	881
60°	582	689	582
65°	380	380	380
70°	224	157	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: 5207 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.6	28.3
10°-20°	997.9	45.5
20°-30°	431.2	19.7
30°-40°	98.3	4.5
40°-50°	33.7	1.5
50°-60°	8.2	0.4
60°-70°	2.1	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°	2048.6	93.5
0°-40°	2146.9	98.0
0°-60°	2188.9	99.9
0°-90°	2191.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2191.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7046	7046	7046	7046	7046	
5°	6818	6811	6810	6824	6818	620
15°	3736	3691	3716	3704	3697	1000
25°	878	911	990	888	860	420
35°	147	150	141	140	118	100
45°	39	48	48	48	39	27
55°	6	7	12	7	7	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°	7046.0	7046.0	7046.0	7046.0	7046.0
2.5°	6999.3	6994.5	6997.2	7000.7	7002.1
5°	6817.7	6811.1	6809.7	6823.9	6818.1
7.5°	6451.4	6442.0	6427.8	6460.0	6490.1
10°	5837.7	5827.3	5796.5	5811.7	5836.2
12.5°	4931.7	4898.1	4897.4	4945.8	4939.2
15°	3735.8	3690.8	3715.7	3703.6	3697.0
17.5°	2512.2	2494.9	2528.1	2518.1	2474.8
20°	1807.1	1811.7	1875.0	1843.1	1804.7
22.5°	1318.7	1335.0	1410.0	1328.0	1298.0
25°	878.0	911.2	990.1	888.0	860.0
27.5°	540.0	555.2	635.1	533.1	517.9
30°	335.9	328.3	366.0	314.1	292.7
32.5°	220.4	210.7	222.8	200.0	182.7
35°	147.4	150.5	141.1	140.1	118.3
37.5°	92.0	105.9	93.4	99.6	76.1
40°	59.5	76.8	66.1	73.0	56.0
42.5°	48.8	59.1	54.3	57.8	49.8
45°	38.7	48.1	48.1	48.1	39.1
47.5°	21.4	32.2	41.1	32.9	22.8
50°	12.1	16.3	31.8	17.0	12.8
52.5°	8.3	9.3	21.8	9.7	8.7
55°	6.2	6.6	11.7	6.9	6.6
57.5°	4.9	5.2	6.2	5.2	4.9
60°	3.8	3.8	4.5	4.1	3.8
62.5°	2.8	2.8	3.1	2.8	2.8
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	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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