

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: P742142

Luminaire Tested: LD4D10D010-EU4DR300210IC9035-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742142
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: LD4D10D010-EU4DR300210IC9035-4LBDP1MW
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: 919.1 lumens
Efficiency: N/A
Efficacy: 78.6 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): 11.7
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



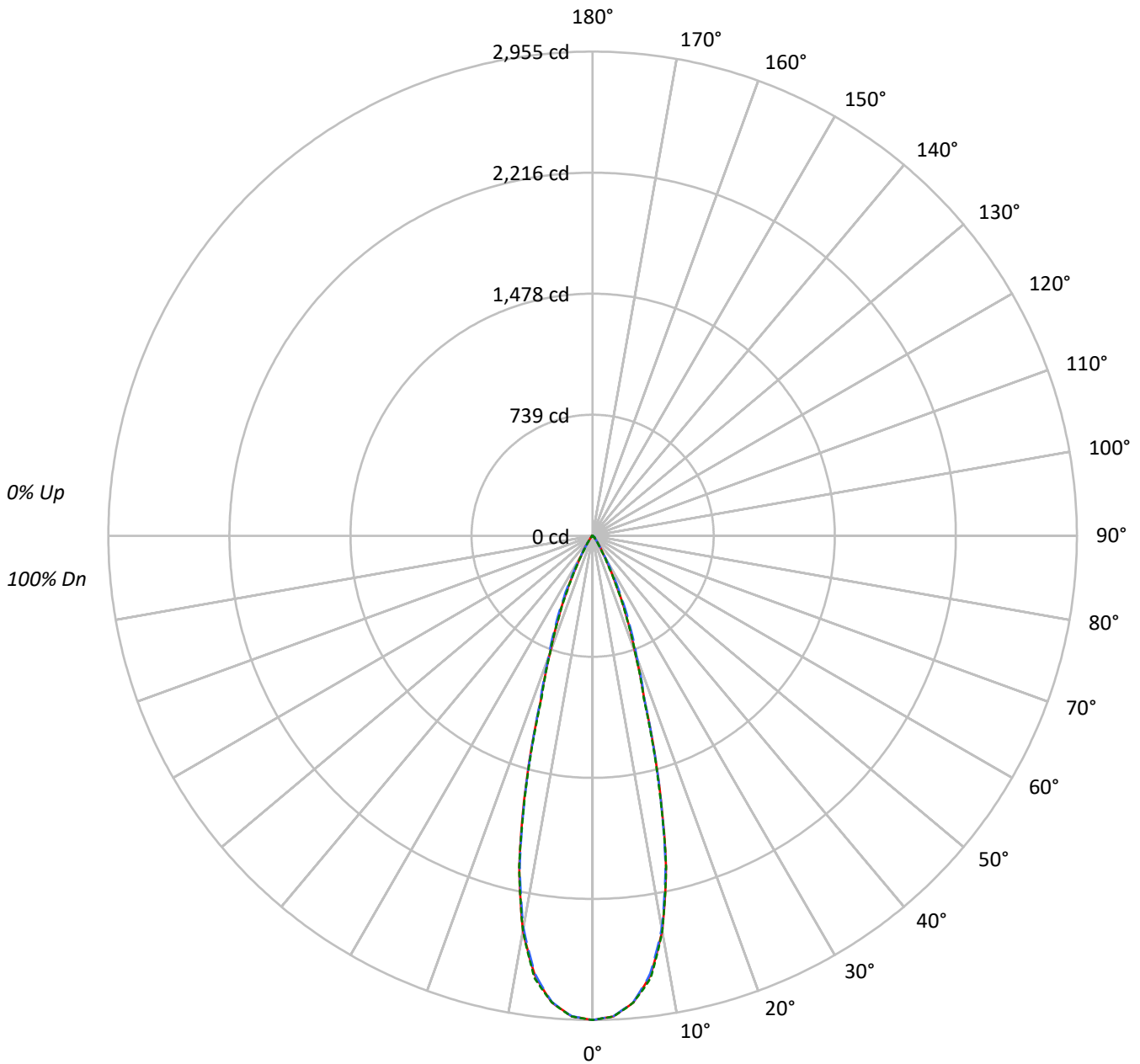
Downlight



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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	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°	226201	226201	226201
5°	219704	219443	219712
10°	190292	188955	190253
15°	124159	123493	122875
20°	61743	64057	61654
25°	31097	35066	30463
30°	12453	13567	10845
35°	5775	5532	4635
40°	2498	2768	2348
45°	1764	2187	1775
50°	607	1584	643
55°	347	654	374
60°	245	291	245
65°	163	163	163
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2187 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	28.3
10°-20°	418.5	45.5
20°-30°	180.8	19.7
30°-40°	41.2	4.5
40°-50°	14.2	1.5
50°-60°	3.5	0.4
60°-70°	0.9	0.1
70°-80°	0.1	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°	859.2	93.5
0°-40°	900.4	98.0
0°-60°	918.0	99.9
0°-90°	919.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	919.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2955	2955	2955	2955	2955	
5°	2859	2857	2856	2862	2860	260
15°	1567	1548	1558	1553	1551	420
25°	368	382	415	372	361	176
35°	62	63	59	59	50	42
45°	16	20	20	20	16	12
55°	3	3	5	3	3	3
65°	1	1	1	1	1	1
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°	2955.2	2955.2	2955.2	2955.2	2955.2
2.5°	2935.6	2933.5	2934.7	2936.1	2936.7
5°	2859.4	2856.6	2856.0	2862.0	2859.5
7.5°	2705.8	2701.8	2695.8	2709.4	2722.0
10°	2448.3	2444.0	2431.1	2437.4	2447.8
12.5°	2068.4	2054.3	2054.0	2074.3	2071.6
15°	1566.8	1547.9	1558.4	1553.3	1550.6
17.5°	1053.6	1046.4	1060.3	1056.1	1038.0
20°	758.0	759.8	786.4	773.0	756.9
22.5°	553.1	559.9	591.4	557.0	544.4
25°	368.2	382.2	415.2	372.4	360.7
27.5°	226.5	232.8	266.4	223.6	217.2
30°	140.9	137.7	153.5	131.7	122.7
32.5°	92.4	88.3	93.4	83.9	76.6
35°	61.8	63.1	59.2	58.8	49.6
37.5°	38.6	44.4	39.2	41.8	31.9
40°	25.0	32.2	27.7	30.6	23.5
42.5°	20.5	24.8	22.8	24.2	20.9
45°	16.3	20.2	20.2	20.2	16.4
47.5°	9.0	13.5	17.2	13.8	9.6
50°	5.1	6.8	13.3	7.1	5.4
52.5°	3.5	3.9	9.2	4.1	3.6
55°	2.6	2.8	4.9	2.9	2.8
57.5°	2.0	2.2	2.6	2.2	2.0
60°	1.6	1.6	1.9	1.7	1.6
62.5°	1.1	1.1	1.3	1.1	1.1
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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