

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: P742152

Luminaire Tested: LD4D10D010-EU4DR300210IC9040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742152
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-EU4DR300210IC9040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 852.4 lumens
Efficiency: N/A
Efficacy: 72.9 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): 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



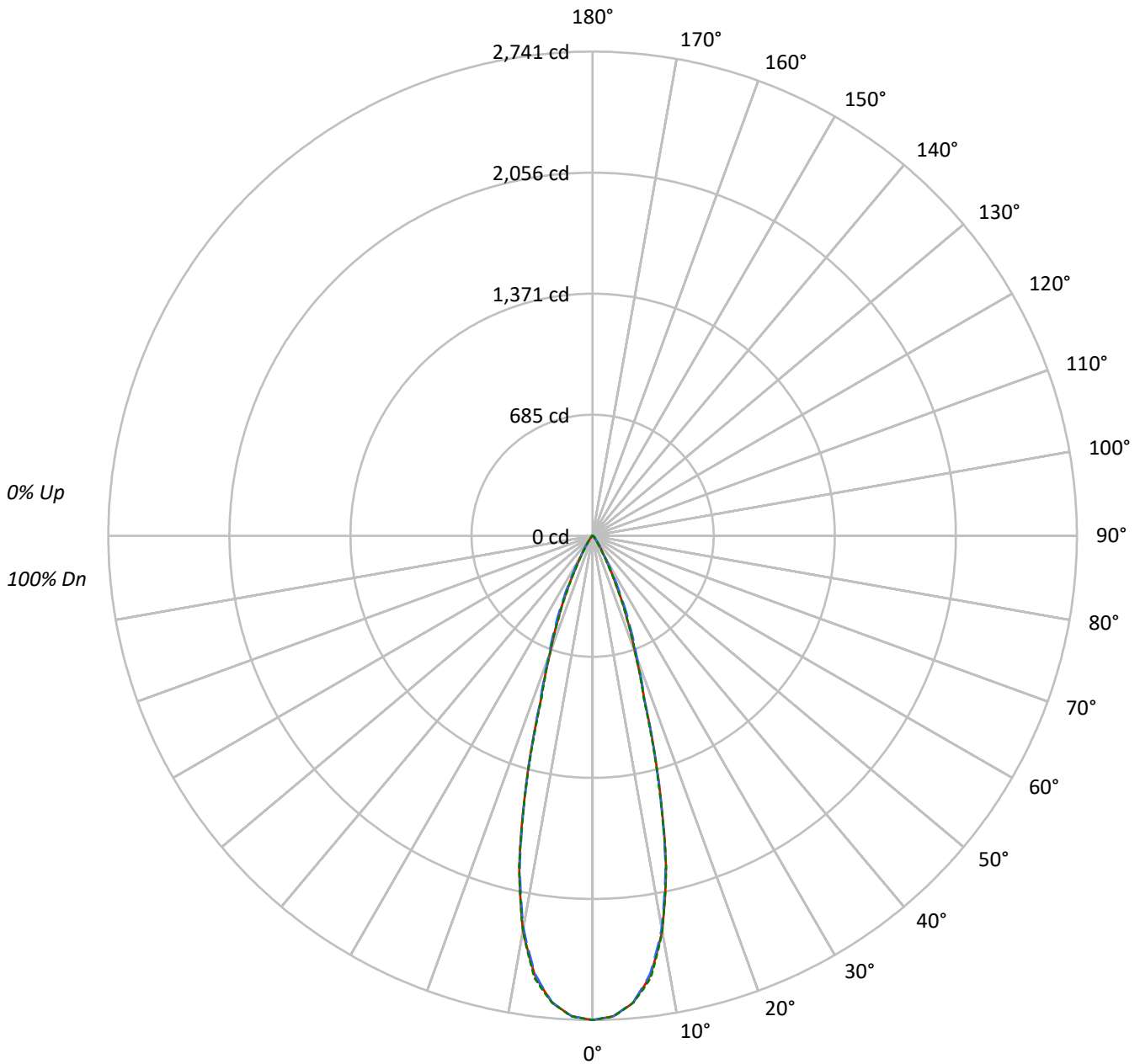
Downlight



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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	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°	209790	209790	209790
5°	203768	203530	203776
10°	176496	175245	176449
15°	115157	114531	113960
20°	57263	59406	57182
25°	28842	32524	28251
30°	11552	12586	10058
35°	5364	5130	4298
40°	2308	2568	2178
45°	1635	2024	1645
50°	560	1477	595
55°	320	614	347
60°	230	276	230
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2024 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.0	28.3
10°-20°	388.1	45.5
20°-30°	167.7	19.7
30°-40°	38.2	4.5
40°-50°	13.1	1.5
50°-60°	3.2	0.4
60°-70°	0.8	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°	796.9	93.5
0°-40°	835.1	98.0
0°-60°	851.5	99.9
0°-90°	852.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	852.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2741	2741	2741	2741	2741	
5°	2652	2649	2649	2654	2652	241
15°	1453	1436	1445	1441	1438	389
25°	342	354	385	345	334	163
35°	57	59	55	54	46	39
45°	15	19	19	19	15	11
55°	2	3	5	3	3	2
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°	2740.8	2740.8	2740.8	2740.8	2740.8
2.5°	2722.6	2720.8	2721.8	2723.2	2723.7
5°	2652.0	2649.4	2648.9	2654.4	2652.1
7.5°	2509.5	2505.9	2500.4	2512.8	2524.5
10°	2270.8	2266.7	2254.7	2260.7	2270.2
12.5°	1918.4	1905.3	1905.0	1923.9	1921.3
15°	1453.2	1435.6	1445.3	1440.6	1438.1
17.5°	977.2	970.5	983.4	979.5	962.7
20°	703.0	704.7	729.3	716.9	702.0
22.5°	513.0	519.3	548.5	516.6	504.9
25°	341.5	354.4	385.1	345.4	334.5
27.5°	210.0	216.0	247.1	207.4	201.4
30°	130.7	127.7	142.4	122.2	113.8
32.5°	85.7	81.9	86.7	77.7	71.0
35°	57.4	58.6	54.9	54.5	46.0
37.5°	35.8	41.2	36.3	38.7	29.6
40°	23.1	29.9	25.7	28.4	21.8
42.5°	19.0	23.0	21.1	22.5	19.4
45°	15.1	18.7	18.7	18.7	15.2
47.5°	8.4	12.5	16.0	12.8	8.9
50°	4.7	6.3	12.4	6.6	5.0
52.5°	3.2	3.6	8.5	3.8	3.4
55°	2.4	2.6	4.6	2.7	2.6
57.5°	1.9	2.0	2.4	2.0	1.9
60°	1.5	1.5	1.8	1.6	1.5
62.5°	1.1	1.1	1.2	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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