

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: P777064

Luminaire Tested: LERS4D02D010-EC4DR300210IC9035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777064
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: LERS4D02D010-EC4DR300210IC9035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 354.6 lumens
Efficiency: N/A
Efficacy: 69.5 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): 5.1
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



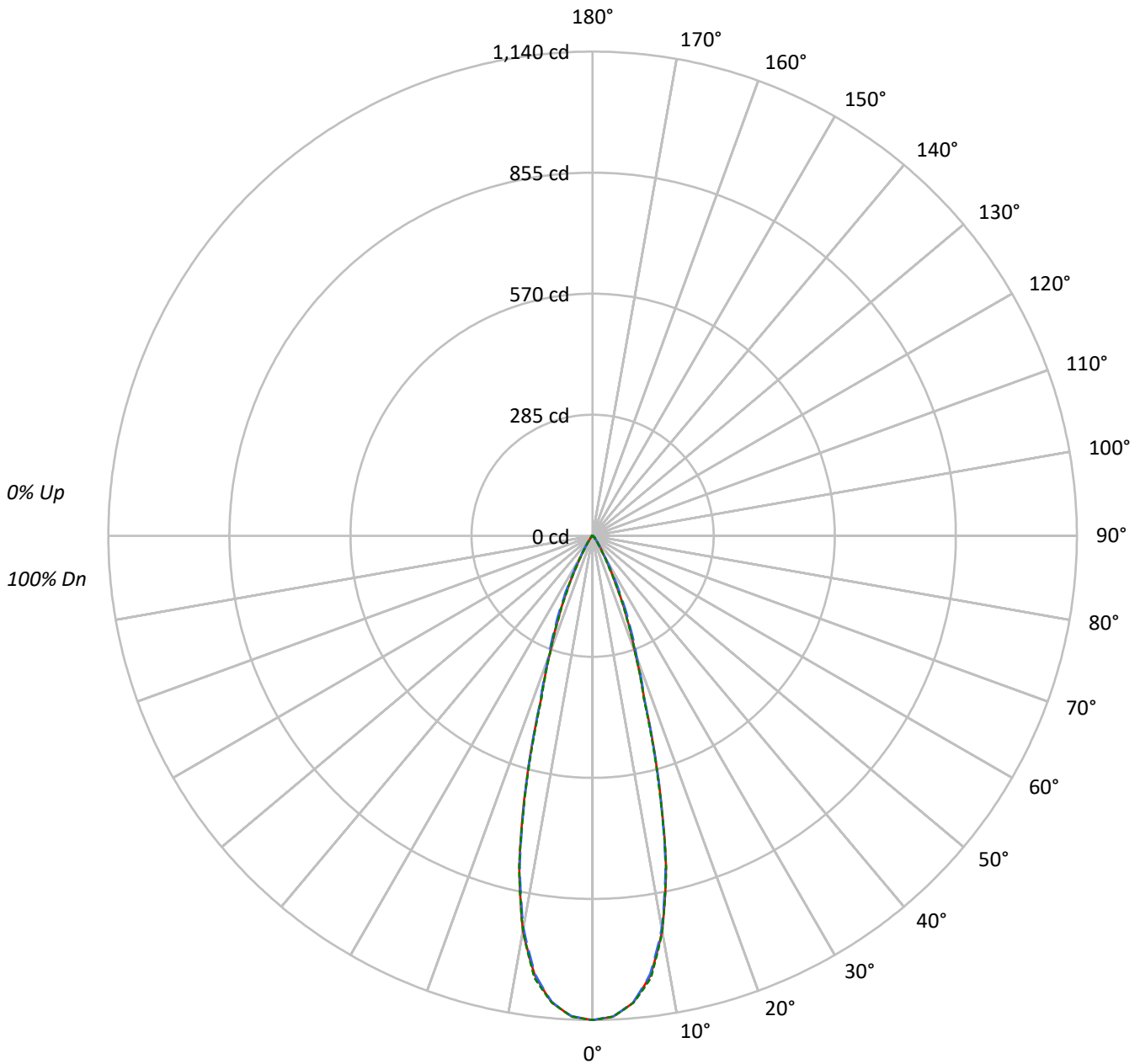
Downlight



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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					70					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°	87275	87275	87275
5°	84765	84665	84773
10°	73418	72905	73403
15°	47903	47649	47403
20°	23818	24714	23785
25°	12001	13530	11756
30°	4808	5232	4189
35°	2224	2140	1785
40°	959	1069	909
45°	671	844	682
50°	226	619	250
55°	133	254	147
60°	92	107	92
65°	54	54	54
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 844 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	28.3
10°-20°	161.5	45.5
20°-30°	69.8	19.7
30°-40°	15.9	4.5
40°-50°	5.5	1.5
50°-60°	1.3	0.4
60°-70°	0.3	0.1
70°-80°	0.0	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°	331.5	93.5
0°-40°	347.4	98.0
0°-60°	354.2	99.9
0°-90°	354.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	354.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1103	1102	1102	1104	1103	100
15°	604	597	601	599	598	162
25°	142	147	160	144	139	68
35°	24	24	23	23	19	16
45°	6	8	8	8	6	4
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
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°	1140.2	1140.2	1140.2	1140.2	1140.2
2.5°	1132.6	1131.8	1132.3	1132.8	1133.1
5°	1103.2	1102.1	1101.9	1104.2	1103.3
7.5°	1043.9	1042.4	1040.1	1045.3	1050.2
10°	944.6	943.0	938.0	940.4	944.4
12.5°	798.0	792.6	792.5	800.3	799.3
15°	604.5	597.2	601.3	599.3	598.2
17.5°	406.5	403.7	409.1	407.5	400.5
20°	292.4	293.2	303.4	298.3	292.0
22.5°	213.4	216.0	228.1	214.9	210.0
25°	142.1	147.4	160.2	143.7	139.2
27.5°	87.4	89.8	102.8	86.3	83.8
30°	54.4	53.1	59.2	50.8	47.4
32.5°	35.6	34.1	36.0	32.4	29.6
35°	23.8	24.4	22.9	22.7	19.1
37.5°	14.9	17.1	15.1	16.1	12.3
40°	9.6	12.4	10.7	11.8	9.1
42.5°	7.9	9.6	8.8	9.3	8.1
45°	6.2	7.8	7.8	7.8	6.3
47.5°	3.5	5.2	6.6	5.3	3.7
50°	1.9	2.6	5.2	2.8	2.1
52.5°	1.3	1.5	3.6	1.5	1.4
55°	1.0	1.1	1.9	1.1	1.1
57.5°	0.8	0.9	1.0	0.9	0.8
60°	0.6	0.6	0.7	0.7	0.6
62.5°	0.5	0.5	0.5	0.5	0.5
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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