

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: P777053

Luminaire Tested: LERS4D02D010-EC4DR300210IC9024-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777053
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-EC4DR300210IC9024-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 312.6 lumens
Efficiency: N/A
Efficacy: 61.3 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): 5.1
Input Voltage (V): NR
Input Current (Ain): 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



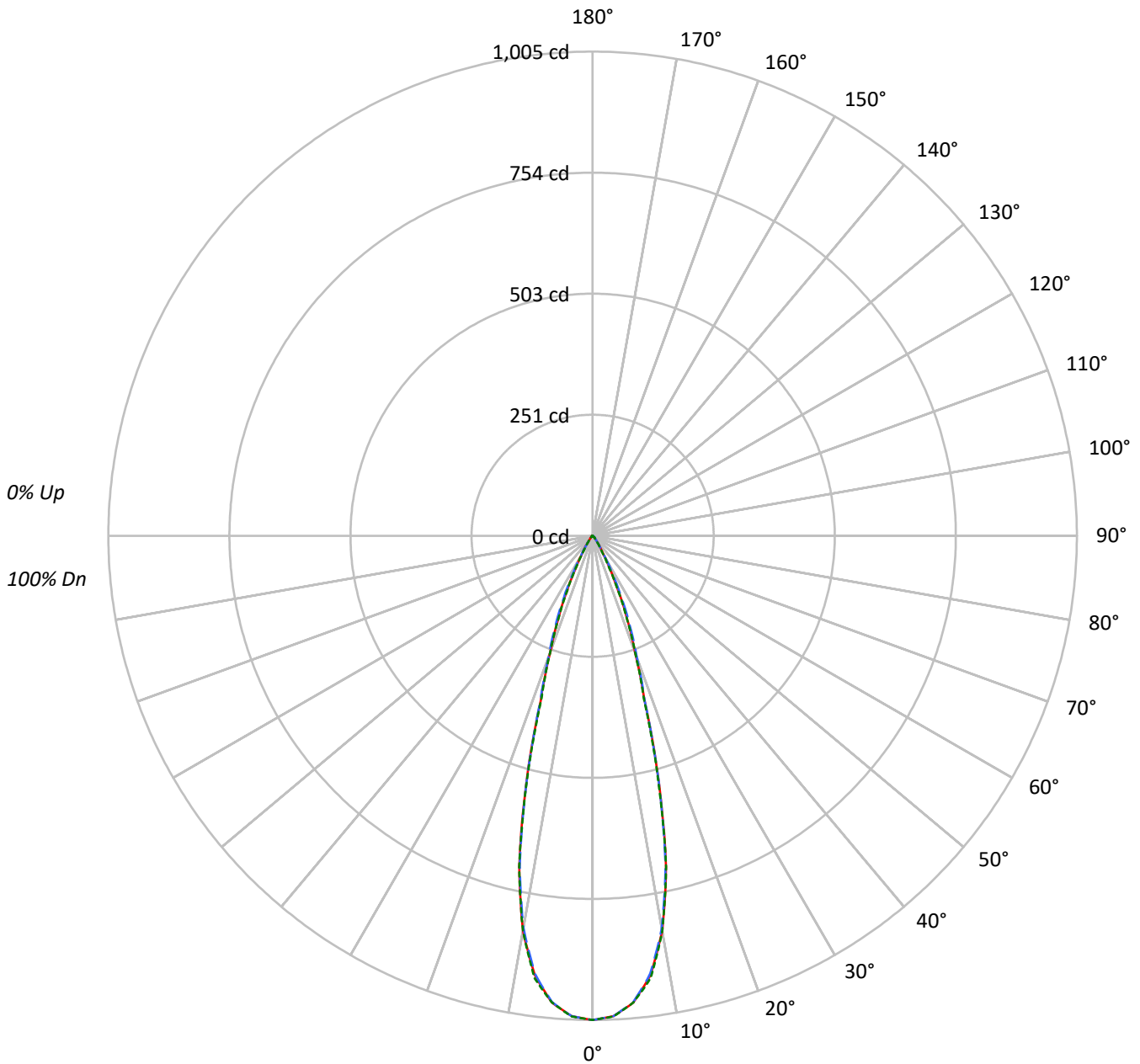
Downlight



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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	76926	76926	76926
5°	74715	74631	74723
10°	64713	64262	64698
15°	42221	41999	41785
20°	20999	21789	20967
25°	10574	11925	10363
30°	4234	4614	3694
35°	1962	1878	1579
40°	849	939	799
45°	595	747	606
50°	202	536	214
55°	120	227	120
60°	77	92	77
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: 747 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	28.3
10°-20°	142.3	45.5
20°-30°	61.5	19.7
30°-40°	14.0	4.5
40°-50°	4.8	1.5
50°-60°	1.2	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°	292.2	93.5
0°-40°	306.2	98.0
0°-60°	312.2	99.9
0°-90°	312.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	312.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	972	972	971	973	972	88
15°	533	526	530	528	527	143
25°	125	130	141	127	123	60
35°	21	22	20	20	17	14
45°	6	7	7	7	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°	1005.0	1005.0	1005.0	1005.0	1005.0
2.5°	998.3	997.6	998.0	998.5	998.7
5°	972.4	971.5	971.3	973.3	972.5
7.5°	920.2	918.8	916.8	921.4	925.7
10°	832.6	831.2	826.8	828.9	832.4
12.5°	703.4	698.6	698.5	705.4	704.5
15°	532.8	526.4	530.0	528.3	527.3
17.5°	358.3	355.9	360.6	359.2	353.0
20°	257.8	258.4	267.5	262.9	257.4
22.5°	188.1	190.4	201.1	189.4	185.1
25°	125.2	129.9	141.2	126.7	122.7
27.5°	77.0	79.2	90.6	76.0	73.9
30°	47.9	46.8	52.2	44.8	41.8
32.5°	31.5	30.0	31.8	28.5	26.1
35°	21.0	21.5	20.1	20.0	16.9
37.5°	13.1	15.1	13.3	14.2	10.8
40°	8.5	10.9	9.4	10.4	8.0
42.5°	6.9	8.4	7.7	8.3	7.1
45°	5.5	6.9	6.9	6.9	5.6
47.5°	3.0	4.6	5.8	4.7	3.3
50°	1.7	2.3	4.5	2.4	1.8
52.5°	1.2	1.3	3.1	1.4	1.3
55°	0.9	0.9	1.7	1.0	0.9
57.5°	0.7	0.7	0.9	0.7	0.7
60°	0.5	0.5	0.6	0.6	0.5
62.5°	0.4	0.4	0.5	0.4	0.4
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

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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