

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: P777294

Luminaire Tested: LERS4D05D010-EC4DR150210IC9024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777294
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D05D010-EC4DR150210IC9024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 618.8 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 7.5
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



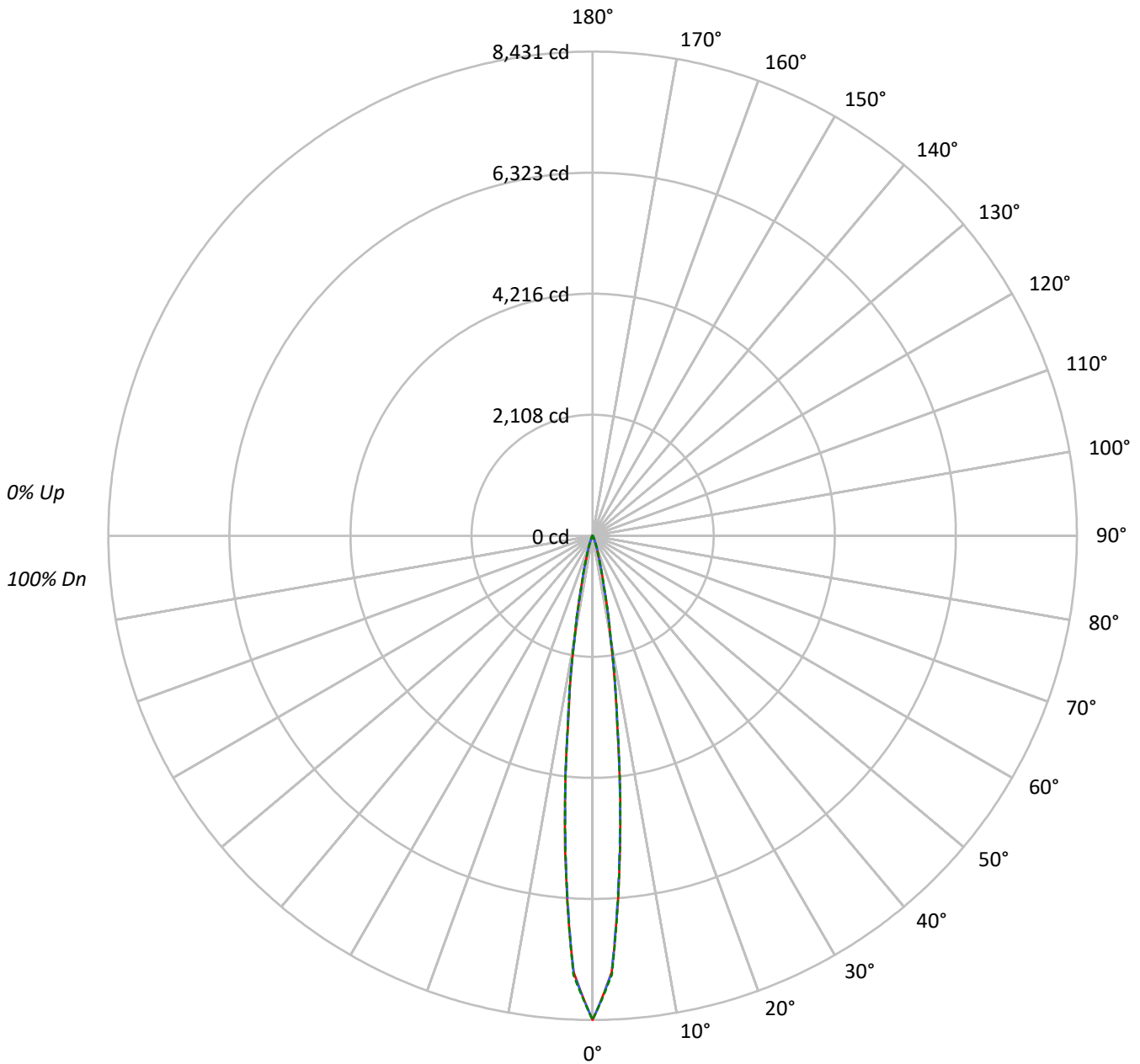
Downlight



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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					100														
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98														
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96					96														
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94					94														
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93					93														
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92					92														
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90					90														
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89					89														
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88					88														
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87					87														
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86					86														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	948656	948656	948656
5°	557475	550249	554609
10°	166377	167543	170109
15°	41387	42195	40892
20°	12380	14335	12642
25°	4362	5562	4417
30°	1602	2112	1632
35°	806	908	777
40°	504	561	504
45°	378	399	378
50°	299	299	299
55°	251	251	251
60°	204	204	204
65°	150	150	150
70°	132	132	132
75°	83	83	106
80°	55	55	55
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 399 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.3	64.9
10°-20°	165.1	26.7
20°-30°	32.8	5.3
30°-40°	8.2	1.3
40°-50°	4.3	0.7
50°-60°	3.2	0.5
60°-70°	2.2	0.4
70°-80°	1.3	0.2
80°-90°	0.4	0.1
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°	599.2	96.8
0°-40°	607.4	98.2
0°-60°	614.9	99.4
0°-90°	618.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	618.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8431	8431	8431	8431	8431	
5°	5485	5429	5414	5452	5457	401
15°	476	485	486	477	471	163
25°	56	64	71	63	57	29
35°	11	12	12	12	11	8
45°	5	5	6	5	5	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°	8431.0	8431.0	8431.0	8431.0	8431.0
2.5°	7605.1	7611.5	7614.0	7621.5	7649.3
5°	5485.4	5429.0	5414.3	5451.8	5457.2
7.5°	3249.3	3260.7	3302.5	3311.8	3278.2
10°	1783.1	1797.8	1795.6	1808.5	1823.1
12.5°	911.9	900.5	896.9	911.6	891.2
15°	476.5	485.4	485.8	477.2	470.8
17.5°	256.3	266.6	283.7	269.8	248.4
20°	151.3	160.6	175.2	163.8	154.5
22.5°	93.5	101.0	111.4	102.4	94.9
25°	56.0	63.5	71.4	63.2	56.7
27.5°	33.2	39.6	44.6	39.3	32.8
30°	21.4	25.0	28.2	24.6	21.8
32.5°	15.0	16.4	17.8	16.4	15.0
35°	11.1	11.8	12.5	11.8	10.7
37.5°	8.6	9.3	9.6	8.9	8.2
40°	7.1	7.5	7.9	7.5	7.1
42.5°	6.1	6.4	6.4	6.4	6.1
45°	5.4	5.4	5.7	5.4	5.4
47.5°	4.6	4.6	5.0	4.6	4.6
50°	4.3	4.3	4.3	4.3	4.3
52.5°	3.9	3.9	3.9	3.9	3.9
55°	3.6	3.6	3.6	3.6	3.6
57.5°	3.2	3.2	3.2	3.2	3.2
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.5	2.5	2.5	2.5	2.5
65°	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.1	1.1	1.1	1.1	1.4
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
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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