

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: P778309

Luminaire Tested: LERS4D15D010-EC4DR300215IC9030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778309
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: LERS4D15D010-EC4DR300215IC9030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1380.4 lumens
Efficiency: N/A
Efficacy: 87.4 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): 15.8
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



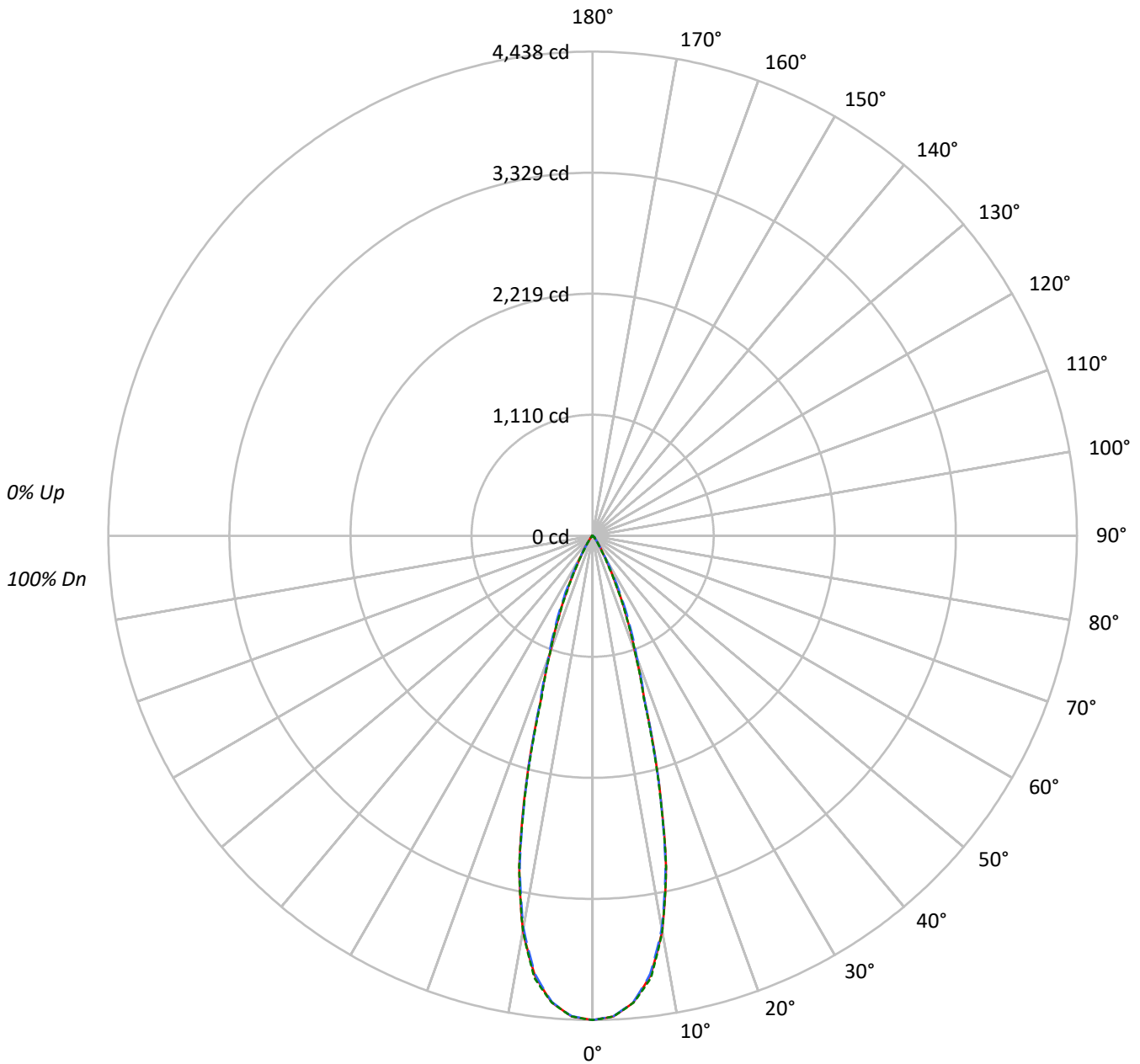
Downlight



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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°	339738	339738	339738
5°	329987	329602	330010
10°	285823	283802	285753
15°	186484	185485	184550
20°	92729	96207	92599
25°	46713	52675	45750
30°	18702	20382	16298
35°	8671	8307	6961
40°	3747	4157	3527
45°	2641	3280	2663
50°	905	2394	965
55°	520	988	547
60°	367	429	367
65°	235	235	235
70°	134	112	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.3	28.3
10°-20°	628.6	45.5
20°-30°	271.6	19.7
30°-40°	61.9	4.5
40°-50°	21.3	1.5
50°-60°	5.2	0.4
60°-70°	1.3	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°	1290.5	93.5
0°-40°	1352.4	98.0
0°-60°	1378.9	99.9
0°-90°	1380.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1380.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	4295	4291	4290	4299	4295	391
15°	2353	2325	2341	2333	2329	630
25°	553	574	624	559	542	265
35°	93	95	89	88	74	63
45°	24	30	30	30	25	17
55°	4	4	7	4	4	4
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°	4438.5	4438.5	4438.5	4438.5	4438.5
2.5°	4409.1	4406.0	4407.8	4410.0	4410.9
5°	4294.7	4290.6	4289.7	4298.6	4295.0
7.5°	4063.9	4058.0	4049.1	4069.4	4088.3
10°	3677.4	3670.8	3651.4	3661.0	3676.5
12.5°	3106.7	3085.5	3085.1	3115.6	3111.4
15°	2353.3	2325.0	2340.7	2333.0	2328.9
17.5°	1582.5	1571.6	1592.5	1586.2	1559.0
20°	1138.4	1141.3	1181.1	1161.1	1136.8
22.5°	830.7	840.9	888.2	836.6	817.6
25°	553.1	574.0	623.7	559.4	541.7
27.5°	340.2	349.7	400.1	335.8	326.2
30°	211.6	206.8	230.6	197.9	184.4
32.5°	138.8	132.7	140.3	125.9	115.0
35°	92.8	94.8	88.9	88.2	74.5
37.5°	58.0	66.7	58.8	62.7	48.0
40°	37.5	48.4	41.6	46.0	35.3
42.5°	30.7	37.2	34.2	36.4	31.4
45°	24.4	30.3	30.3	30.3	24.6
47.5°	13.5	20.3	26.0	20.7	14.4
50°	7.6	10.3	20.1	10.7	8.1
52.5°	5.2	5.9	13.8	6.1	5.4
55°	3.9	4.1	7.4	4.4	4.1
57.5°	3.0	3.3	3.9	3.3	3.0
60°	2.4	2.4	2.8	2.6	2.4
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.9	0.9	0.9	0.9
70°	0.6	0.5	0.5	0.5	0.6
72.5°	0.5	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

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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