

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: P778315

Luminaire Tested: LERS4D15D010-EC4DR300215IC9035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778315
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-EC4DR300215IC9035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1385.2 lumens
Efficiency: N/A
Efficacy: 87.7 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 (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



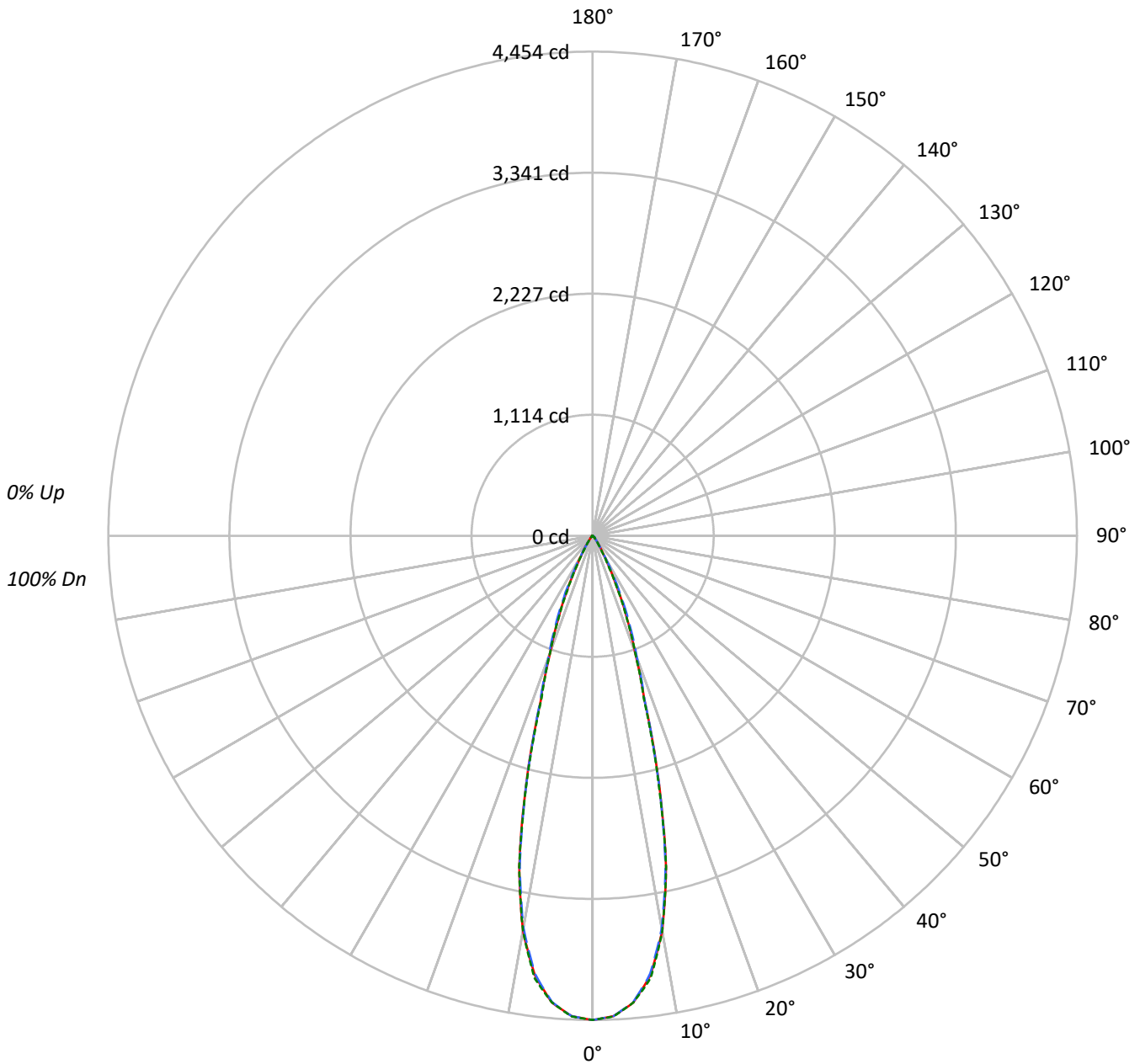
Downlight



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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					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°	340917	340917	340917
5°	331131	330747	331155
10°	286810	284789	286748
15°	187134	186127	185192
20°	93047	96541	92925
25°	46873	52853	45910
30°	18764	20452	16351
35°	8709	8335	6989
40°	3757	4177	3537
45°	2652	3291	2674
50°	917	2394	965
55°	534	988	560
60°	367	444	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: 3291 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	28.3
10°-20°	630.8	45.5
20°-30°	272.6	19.7
30°-40°	62.1	4.5
40°-50°	21.3	1.5
50°-60°	5.2	0.4
60°-70°	1.4	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°	1295.0	93.5
0°-40°	1357.1	98.0
0°-60°	1383.7	99.9
0°-90°	1385.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1385.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4454	4454	4454	4454	4454	
5°	4310	4306	4305	4314	4310	392
15°	2362	2333	2349	2341	2337	632
25°	555	576	626	561	544	266
35°	93	95	89	89	75	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°	4453.9	4453.9	4453.9	4453.9	4453.9
2.5°	4424.4	4421.4	4423.1	4425.3	4426.2
5°	4309.6	4305.5	4304.6	4313.6	4309.9
7.5°	4078.0	4072.1	4063.2	4083.5	4102.6
10°	3690.1	3683.6	3664.1	3673.8	3689.3
12.5°	3117.4	3096.2	3095.8	3126.4	3122.2
15°	2361.5	2333.1	2348.8	2341.1	2337.0
17.5°	1588.0	1577.1	1598.1	1591.7	1564.4
20°	1142.3	1145.2	1185.2	1165.1	1140.8
22.5°	833.6	843.8	891.3	839.5	820.5
25°	555.0	576.0	625.8	561.3	543.6
27.5°	341.4	351.0	401.5	337.0	327.4
30°	212.3	207.5	231.4	198.6	185.0
32.5°	139.3	133.2	140.8	126.4	115.4
35°	93.2	95.1	89.2	88.6	74.8
37.5°	58.2	66.9	59.0	63.0	48.1
40°	37.6	48.5	41.8	46.1	35.4
42.5°	30.8	37.4	34.3	36.5	31.5
45°	24.5	30.4	30.4	30.4	24.7
47.5°	13.6	20.3	26.0	20.8	14.4
50°	7.7	10.3	20.1	10.7	8.1
52.5°	5.3	5.9	13.8	6.1	5.4
55°	4.0	4.2	7.4	4.4	4.2
57.5°	3.0	3.3	4.0	3.3	3.0
60°	2.4	2.4	2.9	2.6	2.4
62.5°	1.8	1.8	1.9	1.8	1.8
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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