

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: P780468

Luminaire Tested: LER4D25D010-EC4DR3020359030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780468
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: LER4D25D010-EC4DR3020359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2296.4 lumens
Efficiency: N/A
Efficacy: 91.5 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): 25.1
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



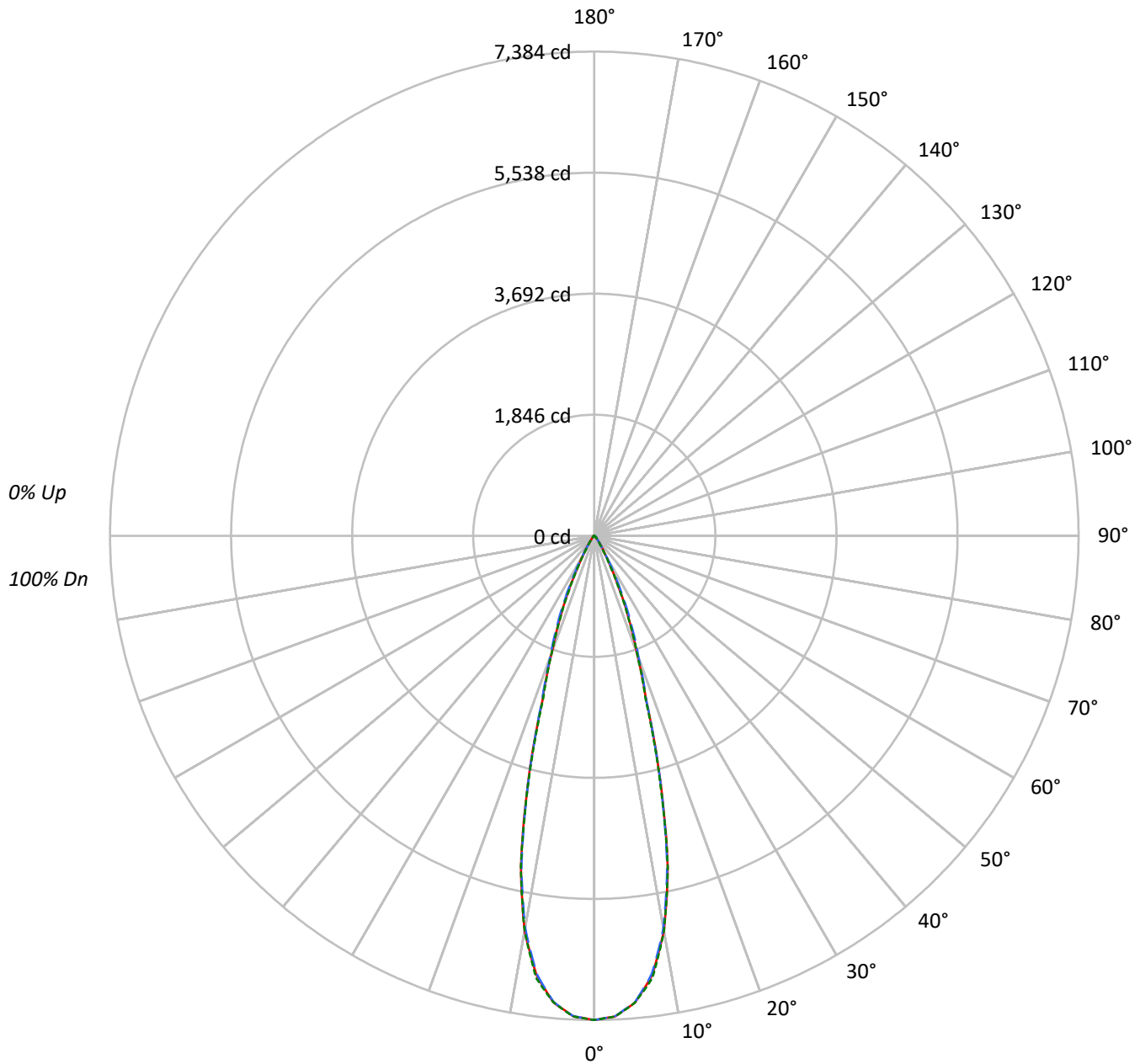
Downlight



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	565212	565212	565212
5°	548984	548346	549015
10°	475509	472151	475392
15°	310246	308582	307029
20°	154269	160061	154065
25°	77708	87632	76120
30°	31111	33904	27108
35°	14437	13820	11587
40°	6225	6924	5865
45°	4395	5456	4438
50°	1512	3965	1596
55°	867	1641	921
60°	612	720	612
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.3	28.3
10°-20°	1045.8	45.5
20°-30°	451.9	19.7
30°-40°	103.0	4.5
40°-50°	35.4	1.5
50°-60°	8.6	0.4
60°-70°	2.2	0.1
70°-80°	0.2	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°	2147.0	93.5
0°-40°	2250.0	98.0
0°-60°	2294.0	99.9
0°-90°	2296.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7384	7384	7384	7384	7384	
5°	7145	7138	7137	7152	7145	650
15°	3915	3868	3894	3881	3874	1048
25°	920	955	1038	931	901	440
35°	154	158	148	147	124	105
45°	41	50	50	50	41	29
55°	6	7	12	7	7	6
65°	2	2	2	2	2	2
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°	7384.2	7384.2	7384.2	7384.2	7384.2
2.5°	7335.3	7330.2	7333.1	7336.7	7338.2
5°	7144.9	7138.1	7136.6	7151.5	7145.3
7.5°	6761.0	6751.3	6736.4	6770.1	6801.6
10°	6117.9	6107.0	6074.7	6090.7	6116.4
12.5°	5168.4	5133.2	5132.5	5183.3	5176.4
15°	3915.1	3867.9	3894.1	3881.3	3874.5
17.5°	2632.8	2614.7	2649.4	2639.0	2593.6
20°	1893.9	1898.6	1965.0	1931.6	1891.4
22.5°	1382.0	1399.0	1477.7	1391.8	1360.2
25°	920.1	954.9	1037.6	930.6	901.3
27.5°	565.9	581.9	665.6	558.7	542.7
30°	352.0	344.1	383.6	329.2	306.7
32.5°	231.0	220.8	233.5	209.5	191.4
35°	154.5	157.7	147.9	146.8	124.0
37.5°	96.4	110.9	97.9	104.4	79.8
40°	62.3	80.5	69.3	76.5	58.7
42.5°	51.1	62.0	56.9	60.6	52.2
45°	40.6	50.4	50.4	50.4	41.0
47.5°	22.5	33.7	43.1	34.4	23.9
50°	12.7	17.0	33.3	17.8	13.4
52.5°	8.7	9.8	22.9	10.1	9.1
55°	6.5	6.9	12.3	7.3	6.9
57.5°	5.1	5.4	6.5	5.4	5.1
60°	4.0	4.0	4.7	4.4	4.0
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.4	1.4	1.4	1.4
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)