

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: P780473

Luminaire Tested: LER4D25D010-EC4DR3020359035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780473
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-EC4DR3020359035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2585.7 lumens
Efficiency: N/A
Efficacy: 103.0 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 (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



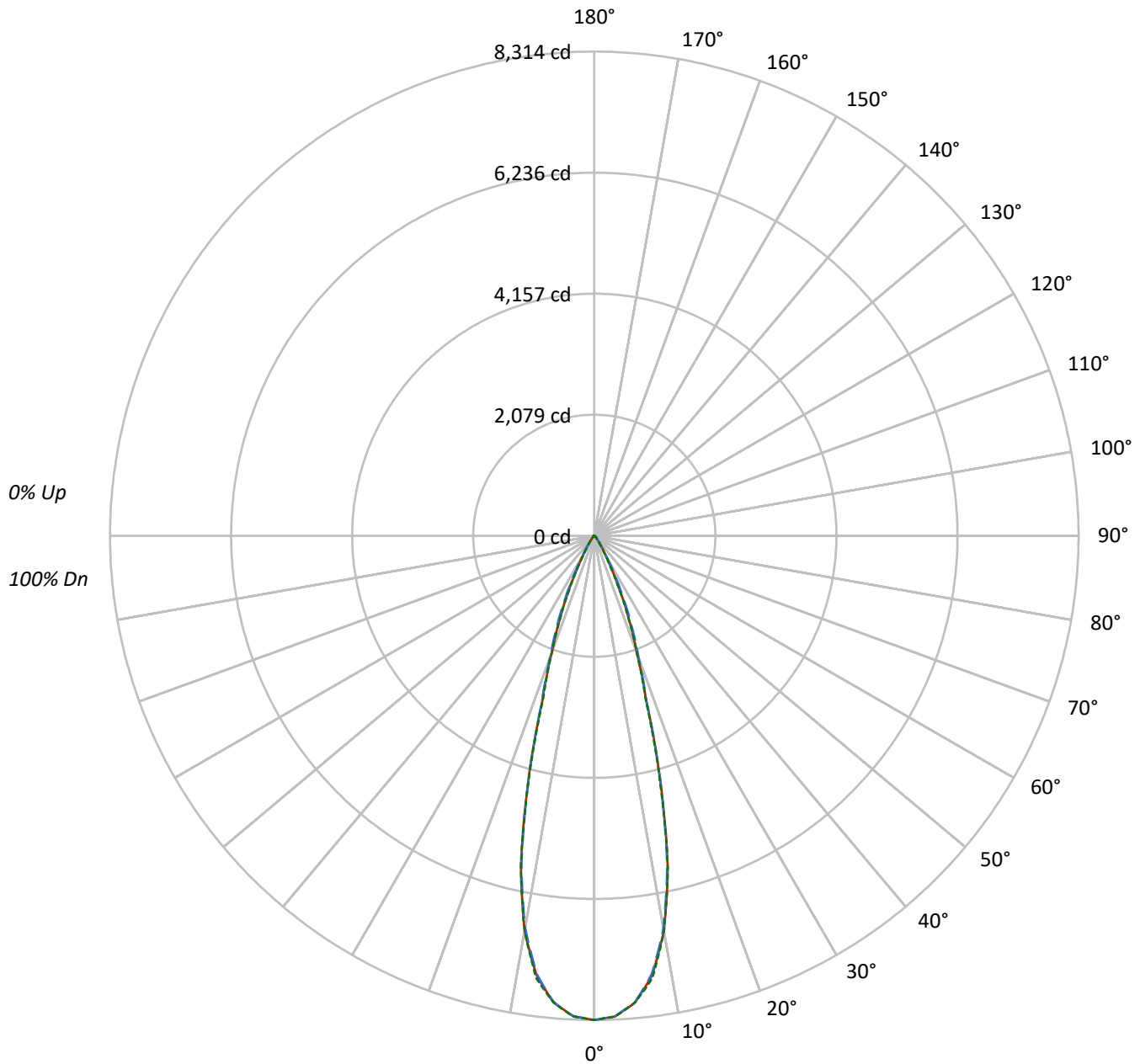
Downlight



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	636405	636405	636405
5°	618136	617414	618167
10°	535403	531626	535279
15°	349321	347451	345700
20°	173704	180213	173468
25°	87497	98670	85706
30°	35036	38173	30519
35°	16250	15567	13045
40°	7014	7794	6605
45°	4947	6138	4990
50°	1703	4466	1798
55°	974	1855	1028
60°	689	811	689
65°	453	453	453
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6138 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.1	28.3
10°-20°	1177.5	45.5
20°-30°	508.8	19.7
30°-40°	116.0	4.5
40°-50°	39.8	1.5
50°-60°	9.7	0.4
60°-70°	2.5	0.1
70°-80°	0.3	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°	2417.4	93.5
0°-40°	2533.4	98.0
0°-60°	2582.9	99.9
0°-90°	2585.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8314	8314	8314	8314	8314	
5°	8045	8037	8036	8052	8045	732
15°	4408	4355	4385	4370	4362	1180
25°	1036	1075	1168	1048	1015	496
35°	174	178	167	165	140	118
45°	46	57	57	57	46	32
55°	7	8	14	8	8	7
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°	8314.3	8314.3	8314.3	8314.3	8314.3
2.5°	8259.2	8253.5	8256.8	8260.9	8262.5
5°	8044.9	8037.2	8035.5	8052.3	8045.3
7.5°	7612.6	7601.6	7584.9	7622.8	7658.3
10°	6888.5	6876.2	6839.9	6857.9	6886.9
12.5°	5819.4	5779.8	5779.0	5836.1	5828.3
15°	4408.2	4355.2	4384.6	4370.2	4362.5
17.5°	2964.4	2944.0	2983.2	2971.3	2920.3
20°	2132.5	2137.8	2212.4	2174.9	2129.6
22.5°	1556.1	1575.3	1663.8	1567.1	1531.6
25°	1036.0	1075.2	1168.3	1047.9	1014.8
27.5°	637.2	655.2	749.5	629.0	611.1
30°	396.4	387.4	431.9	370.6	345.3
32.5°	260.0	248.6	262.9	235.9	215.5
35°	173.9	177.6	166.6	165.3	139.6
37.5°	108.6	124.9	110.2	117.6	89.8
40°	70.2	90.6	78.0	86.1	66.1
42.5°	57.6	69.8	64.1	68.2	58.8
45°	45.7	56.7	56.7	56.7	46.1
47.5°	25.3	38.0	48.6	38.8	26.9
50°	14.3	19.2	37.5	20.0	15.1
52.5°	9.8	11.0	25.7	11.4	10.2
55°	7.3	7.7	13.9	8.1	7.7
57.5°	5.7	6.1	7.3	6.1	5.7
60°	4.5	4.5	5.3	4.9	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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)