

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: P780649

Luminaire Tested: LER4D25D010-EC4DR6520359050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR6520359050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2356.2 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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



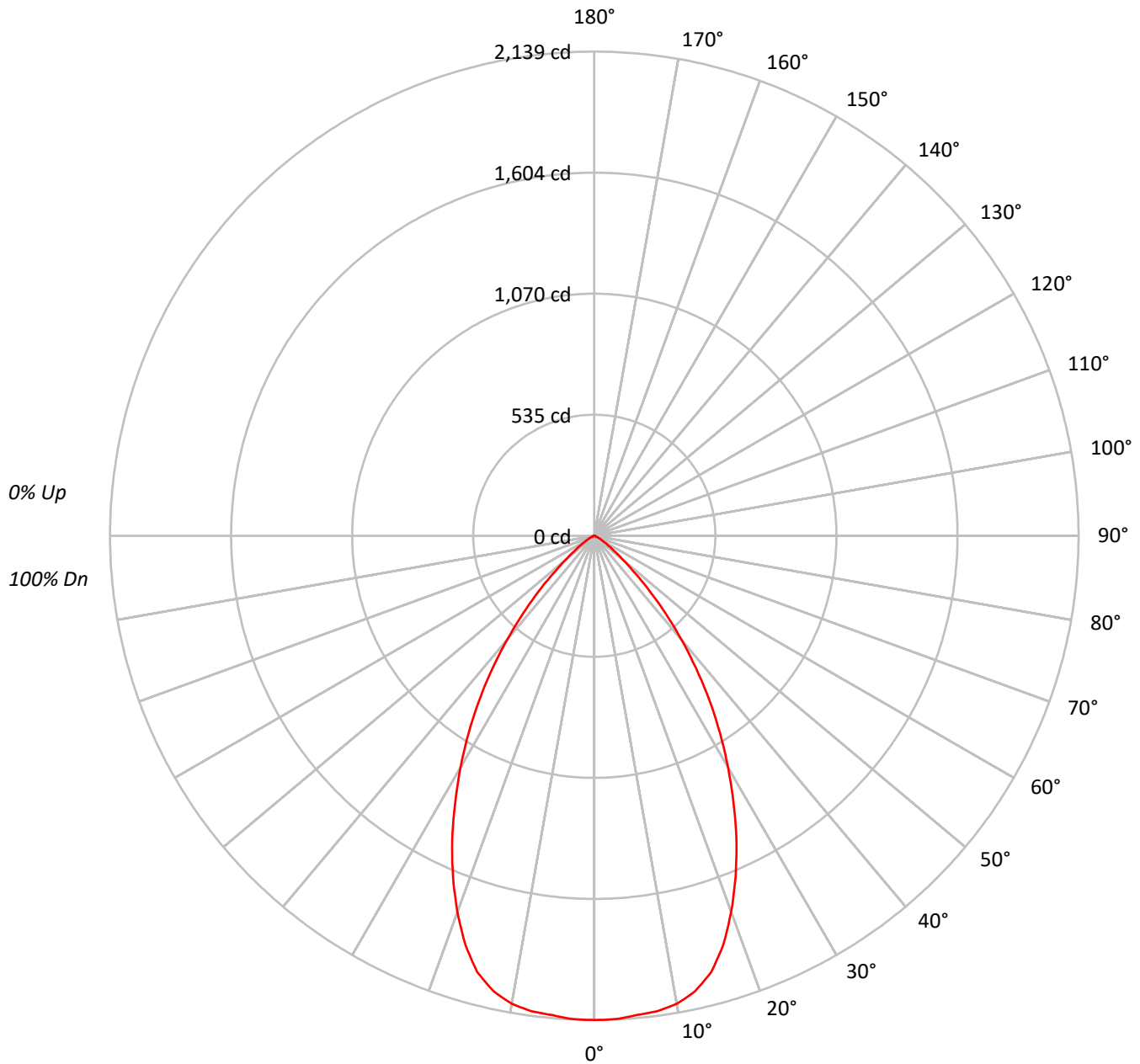
Downlight



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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	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124949
5°	124635
10°	124528
15°	120686
20°	109872
25°	95747
30°	79639
35°	63099
40°	45539
45°	28776
50°	15001
55°	7973
60°	4193
65°	2308
70°	973
75°	1061
80°	740
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 28776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	8.6
10°-20°	554.0	23.5
20°-30°	677.2	28.7
30°-40°	549.5	23.3
40°-50°	273.8	11.6
50°-60°	76.4	3.2
60°-70°	17.4	0.7
70°-80°	4.5	0.2
80°-90°	1.1	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°	1433.6	60.8
0°-40°	1983.0	84.2
0°-60°	2333.2	99.0
0°-90°	2356.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2356.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2139	
5°	2126	202
15°	1996	554
25°	1486	677
35°	885	549
45°	348	274
55°	78	76
65°	17	17
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2139.4
2.5°	2137.8
5°	2125.9
7.5°	2118.9
10°	2099.8
12.5°	2060.8
15°	1996.0
17.5°	1894.8
20°	1767.8
22.5°	1630.7
25°	1485.8
27.5°	1330.8
30°	1180.9
32.5°	1032.7
35°	885.0
37.5°	737.6
40°	597.3
42.5°	465.9
45°	348.4
47.5°	242.7
50°	165.1
52.5°	113.8
55°	78.3
57.5°	52.8
60°	35.9
62.5°	24.8
65°	16.7
67.5°	8.5
70°	5.7
72.5°	5.3
75°	4.7
77.5°	3.2
80°	2.2
82.5°	1.5
85°	0.9
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)