

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: P780650

Luminaire Tested: LER4D25D010-EC4DR6520359050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780650
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-EC4DR6520359050-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 2474.1 lumens
Efficiency: N/A
Efficacy: 98.6 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



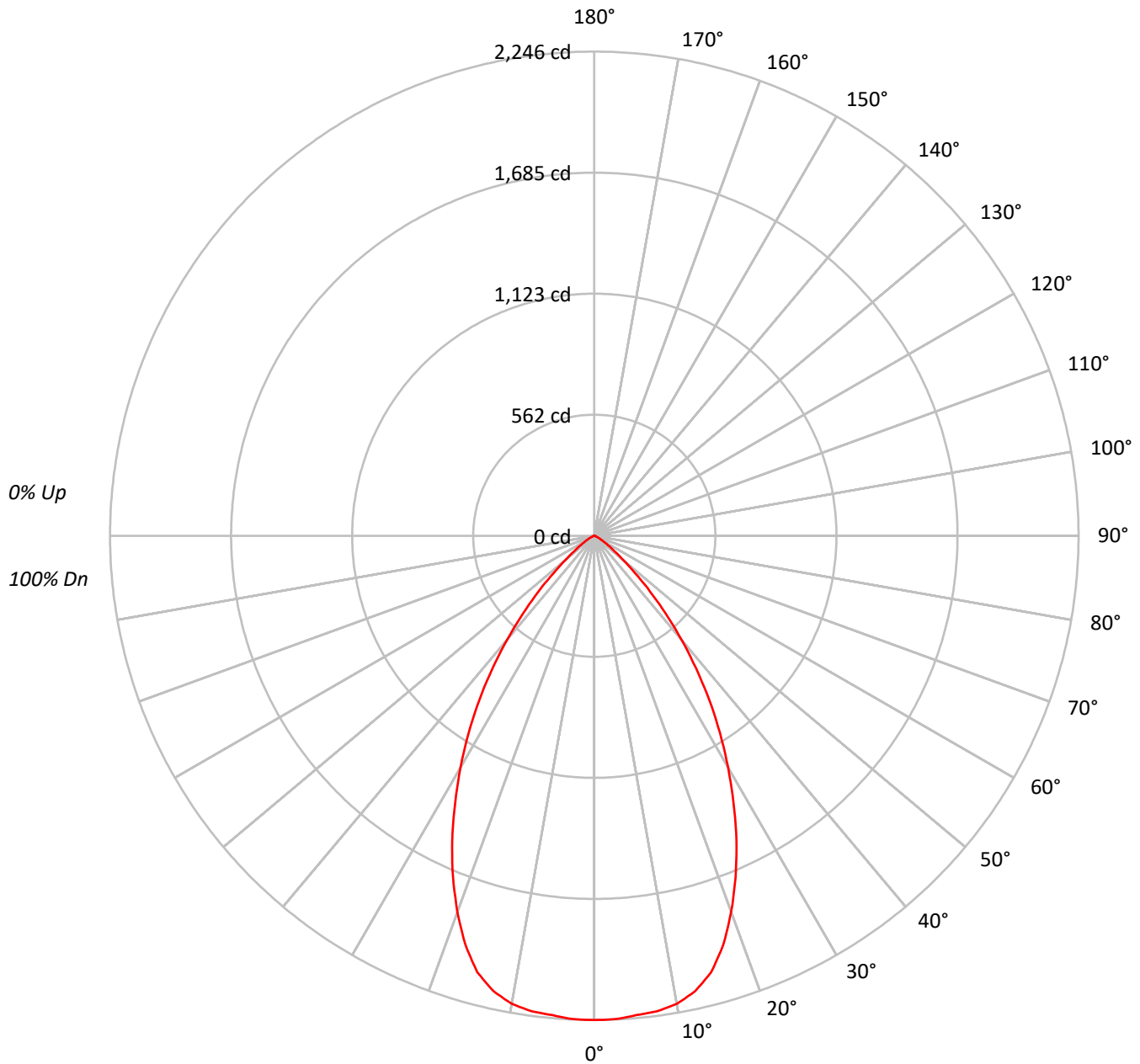
Downlight



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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°	131198
5°	130867
10°	130755
15°	126721
20°	115367
25°	100535
30°	83618
35°	66250
40°	47818
45°	30213
50°	15746
55°	8370
60°	4392
65°	2418
70°	1025
75°	1106
80°	774
85°	670

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	8.6
10°-20°	581.7	23.5
20°-30°	711.1	28.7
30°-40°	576.9	23.3
40°-50°	287.5	11.6
50°-60°	80.2	3.2
60°-70°	18.2	0.7
70°-80°	4.7	0.2
80°-90°	1.2	0.1
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°	1505.2	60.8
0°-40°	2082.2	84.2
0°-60°	2449.9	99.0
0°-90°	2474.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2474.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2246	
5°	2232	212
15°	2096	582
25°	1560	711
35°	929	577
45°	366	287
55°	82	80
65°	18	18
75°	5	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2246.4
2.5°	2244.7
5°	2232.2
7.5°	2224.9
10°	2204.8
12.5°	2163.8
15°	2095.8
17.5°	1989.5
20°	1856.2
22.5°	1712.3
25°	1560.1
27.5°	1397.3
30°	1239.9
32.5°	1084.4
35°	929.2
37.5°	774.4
40°	627.2
42.5°	489.2
45°	365.8
47.5°	254.8
50°	173.3
52.5°	119.5
55°	82.2
57.5°	55.5
60°	37.6
62.5°	26.1
65°	17.5
67.5°	8.9
70°	6.0
72.5°	5.6
75°	4.9
77.5°	3.3
80°	2.3
82.5°	1.7
85°	1.0
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)