

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: P780534

Luminaire Tested: LER4D25D010-EC4DR4520359024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR4520359024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2353.3 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' 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



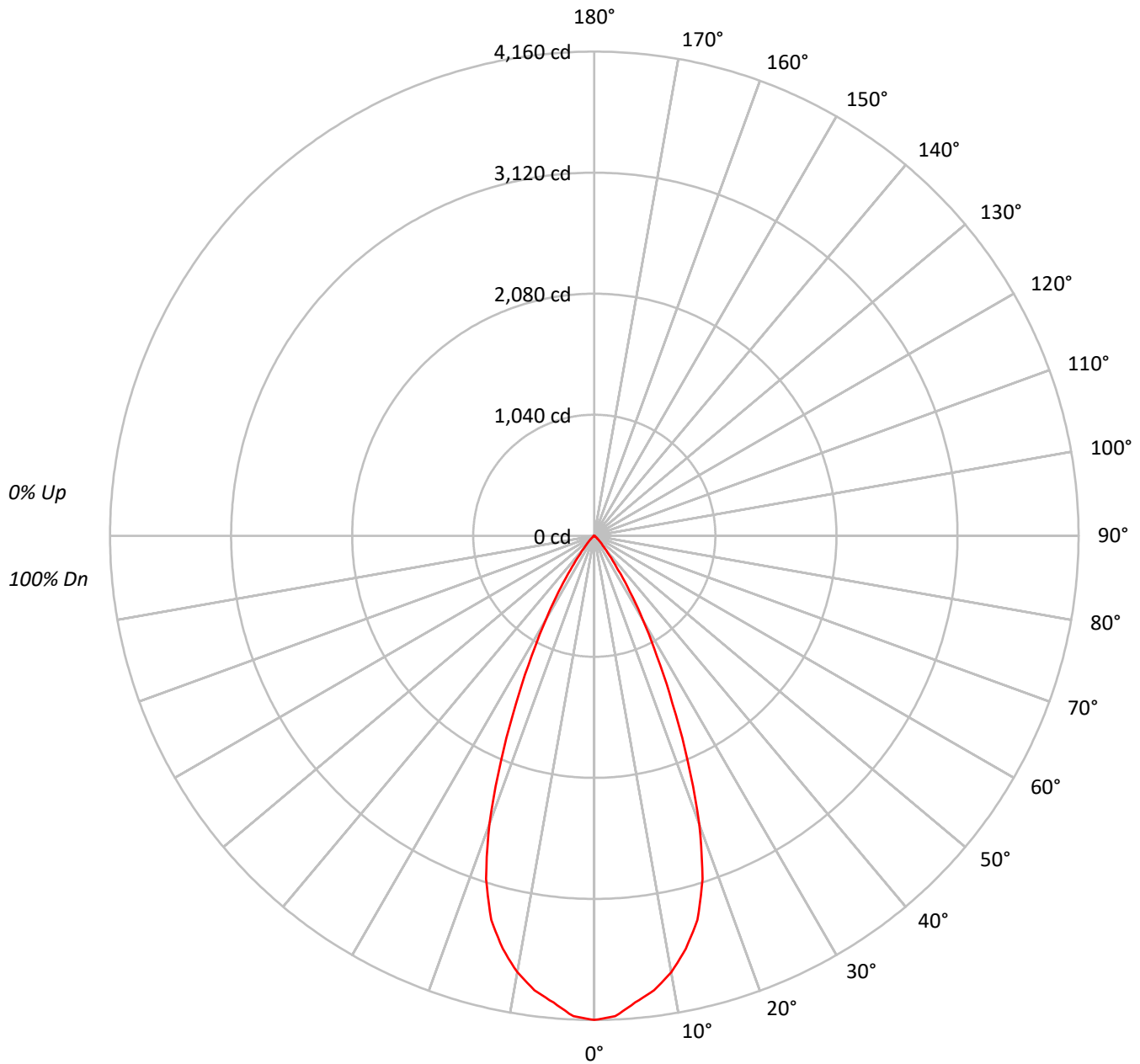
Downlight



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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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	97	97	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	91	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	87	87	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	82	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	78	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	71	71	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	67	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	64	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	61	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	454470
5°	441531
10°	422417
15°	386605
20°	306716
25°	191479
30°	105548
35°	47391
40°	18670
45°	8808
50°	4164
55°	2191
60°	1071
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8808 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	16.1
10°-20°	930.9	39.6
20°-30°	737.2	31.3
30°-40°	245.5	10.4
40°-50°	48.8	2.1
50°-60°	11.1	0.5
60°-70°	1.6	0.1
70°-80°	0.0	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°	2046.4	87.0
0°-40°	2291.9	97.4
0°-60°	2351.7	99.9
0°-90°	2353.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2353.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4160	
5°	4026	378
15°	3418	931
25°	1588	737
35°	355	245
45°	57	49
55°	12	11
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4159.5
2.5°	4132.3
5°	4025.7
7.5°	3937.7
10°	3807.4
12.5°	3634.1
15°	3417.8
17.5°	3092.6
20°	2637.9
22.5°	2096.1
25°	1588.3
27.5°	1163.0
30°	836.6
32.5°	568.9
35°	355.3
37.5°	210.7
40°	130.9
42.5°	86.1
45°	57.0
47.5°	36.7
50°	24.5
52.5°	16.4
55°	11.5
57.5°	7.5
60°	4.9
62.5°	2.6
65°	1.0
67.5°	0.3
70°	0.3
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)