

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: P780150

Luminaire Tested: LER4D20D010-EC4DR2520359024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR2520359024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1588.7 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



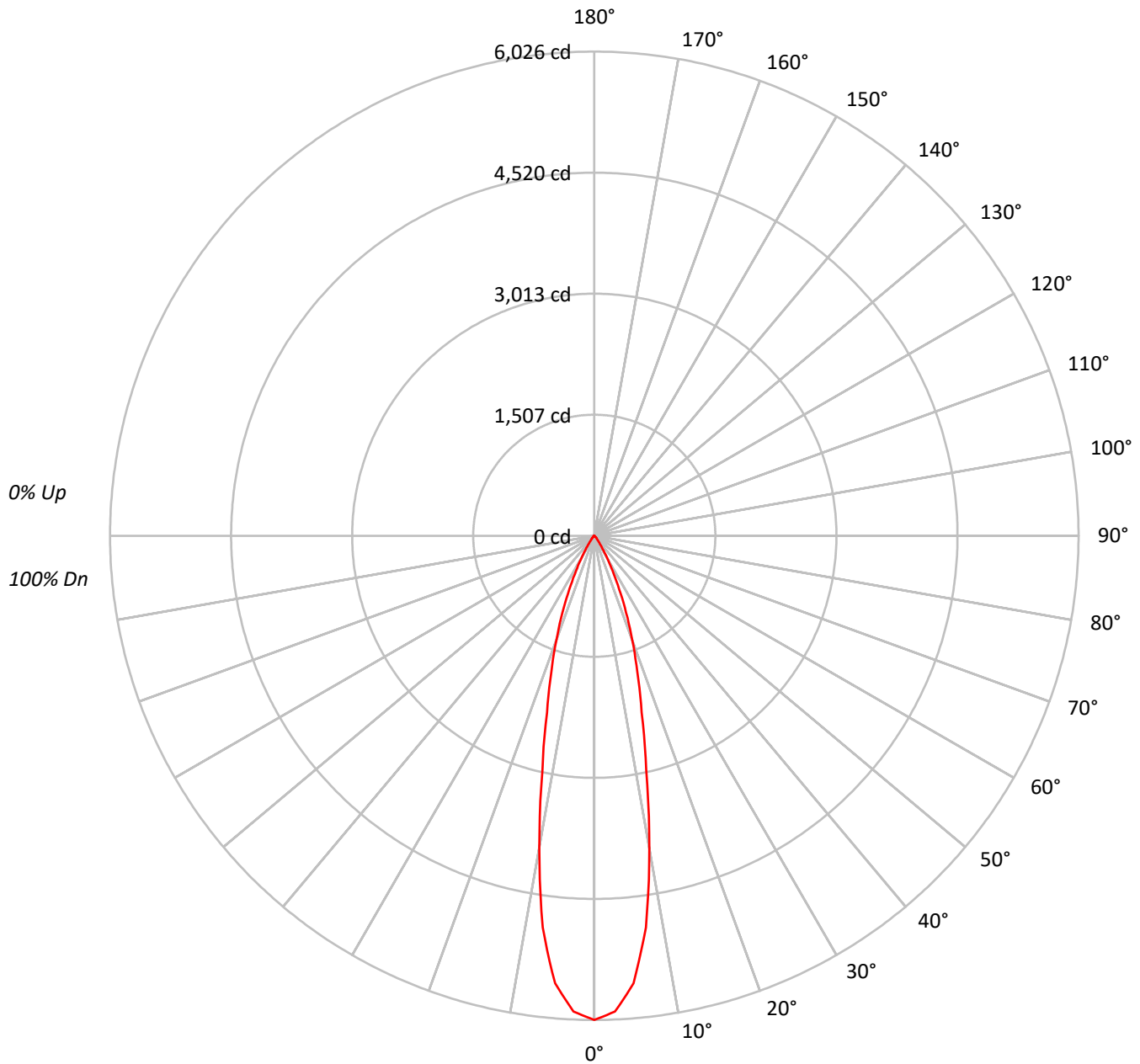
Downlight



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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					0
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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	94	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	90	90	89
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	87	87	85
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	83	83	82
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	80	80	79
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	78	78	77
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	75	75	74
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	73	73	72
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	70	70	69

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	658373
5°	613188
10°	437406
15°	257608
20°	160294
25°	87970
30°	40221
35°	15232
40°	6903
45°	4157
50°	1717
55°	1105
60°	787
65°	517
70°	64
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.5	30.2
10°-20°	650.8	41.0
20°-30°	344.4	21.7
30°-40°	85.0	5.4
40°-50°	20.8	1.3
50°-60°	5.5	0.3
60°-70°	1.8	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°	1475.6	92.9
0°-40°	1560.6	98.2
0°-60°	1586.9	99.9
0°-90°	1588.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6026	
5°	5591	480
15°	2277	651
25°	730	344
35°	114	85
45°	27	21
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6025.7
2.5°	5926.7
5°	5590.8
7.5°	4916.1
10°	3942.5
12.5°	2980.3
15°	2277.4
17.5°	1774.9
20°	1378.6
22.5°	1033.9
25°	729.7
27.5°	489.3
30°	318.8
32.5°	194.0
35°	114.2
37.5°	69.9
40°	48.4
42.5°	37.0
45°	26.9
47.5°	16.2
50°	10.1
52.5°	7.3
55°	5.8
57.5°	4.6
60°	3.6
62.5°	2.8
65°	2.0
67.5°	0.7
70°	0.2
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)