

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: P780170

Luminaire Tested: LER4D20D010-EC4DR2520359050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780170
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-EC4DR2520359050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1952.3 lumens
Efficiency: N/A
Efficacy: 84.5 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



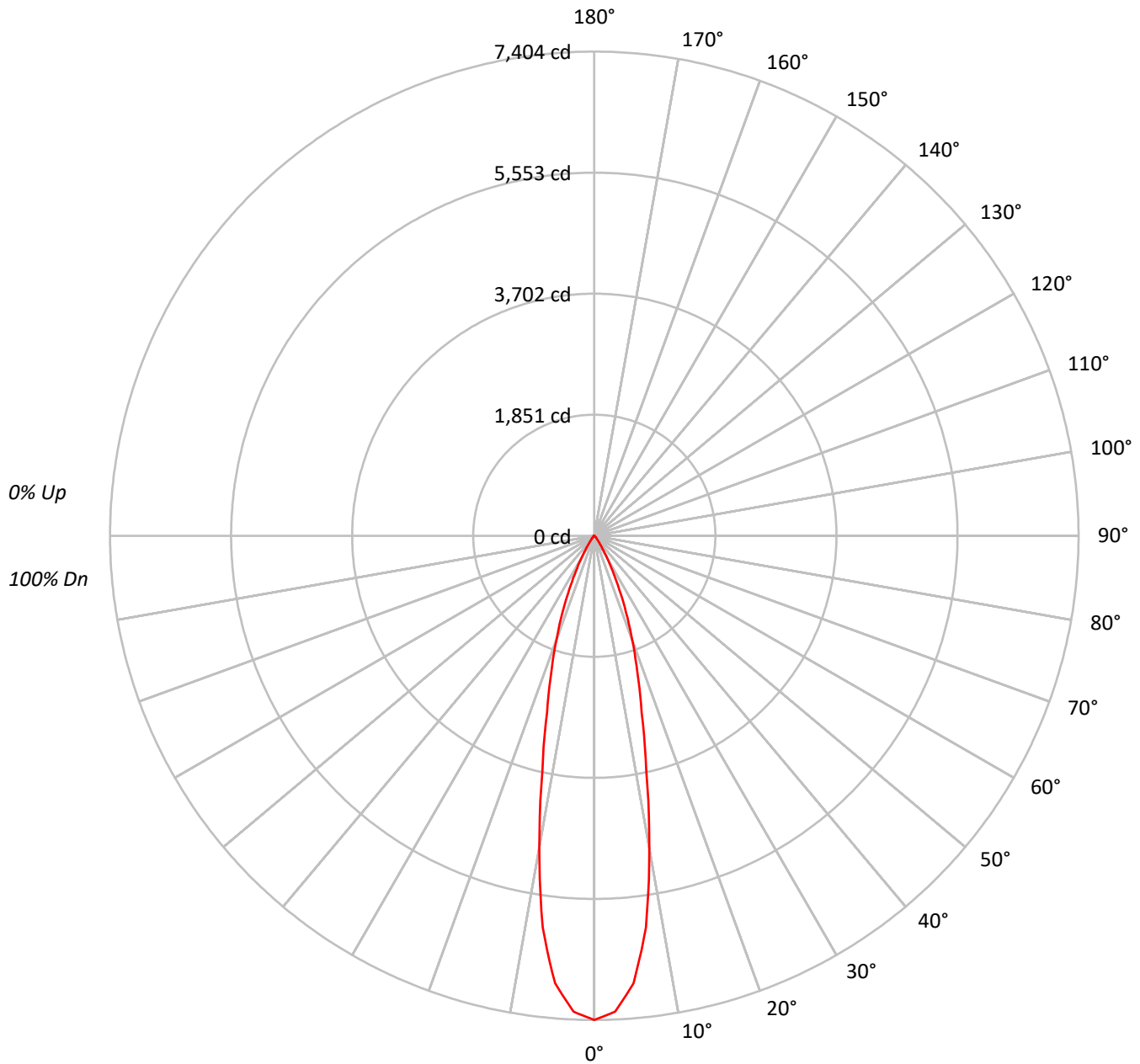
Downlight



TEST NUMBER: P780170

CATALOG NUMBER: LER4D20D010-EC4DR2520359050-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P780170

CATALOG NUMBER: LER4D20D010-EC4DR2520359050-4LBS1LI

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	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	97	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	93	89	86	98	93	89	86	91	87	85	89	86	84	88	85	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	93	87	82	79	92	86	82	79	85	81	78	84	80	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	809021
5°	753500
10°	537490
15°	316564
20°	196966
25°	108102
30°	49431
35°	18727
40°	8486
45°	5099
50°	2108
55°	1372
60°	961
65°	646
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5099 cd/sqm



TEST NUMBER: P780170

CATALOG NUMBER: LER4D20D010-EC4DR2520359050-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.4	30.2
10°-20°	799.7	41.0
20°-30°	423.2	21.7
30°-40°	104.5	5.4
40°-50°	25.5	1.3
50°-60°	6.7	0.3
60°-70°	2.2	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°	1813.3	92.9
0°-40°	1917.8	98.2
0°-60°	1950.0	99.9
0°-90°	1952.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1952.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7404	
5°	6870	590
15°	2799	800
25°	897	423
35°	140	104
45°	33	25
55°	7	7
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780170

CATALOG NUMBER: LER4D20D010-EC4DR2520359050-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	7404.5
2.5°	7282.8
5°	6870.1
7.5°	6041.0
10°	4844.6
12.5°	3662.2
15°	2798.6
17.5°	2181.1
20°	1694.0
22.5°	1270.5
25°	896.7
27.5°	601.3
30°	391.8
32.5°	238.4
35°	140.4
37.5°	85.9
40°	59.5
42.5°	45.4
45°	33.0
47.5°	19.9
50°	12.4
52.5°	9.1
55°	7.2
57.5°	5.6
60°	4.4
62.5°	3.4
65°	2.5
67.5°	0.9
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)