

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: P780154

Luminaire Tested: LER4D20D010-EC4DR2520359027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780154
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-EC4DR2520359027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1763.6 lumens
Efficiency: N/A
Efficacy: 76.3 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



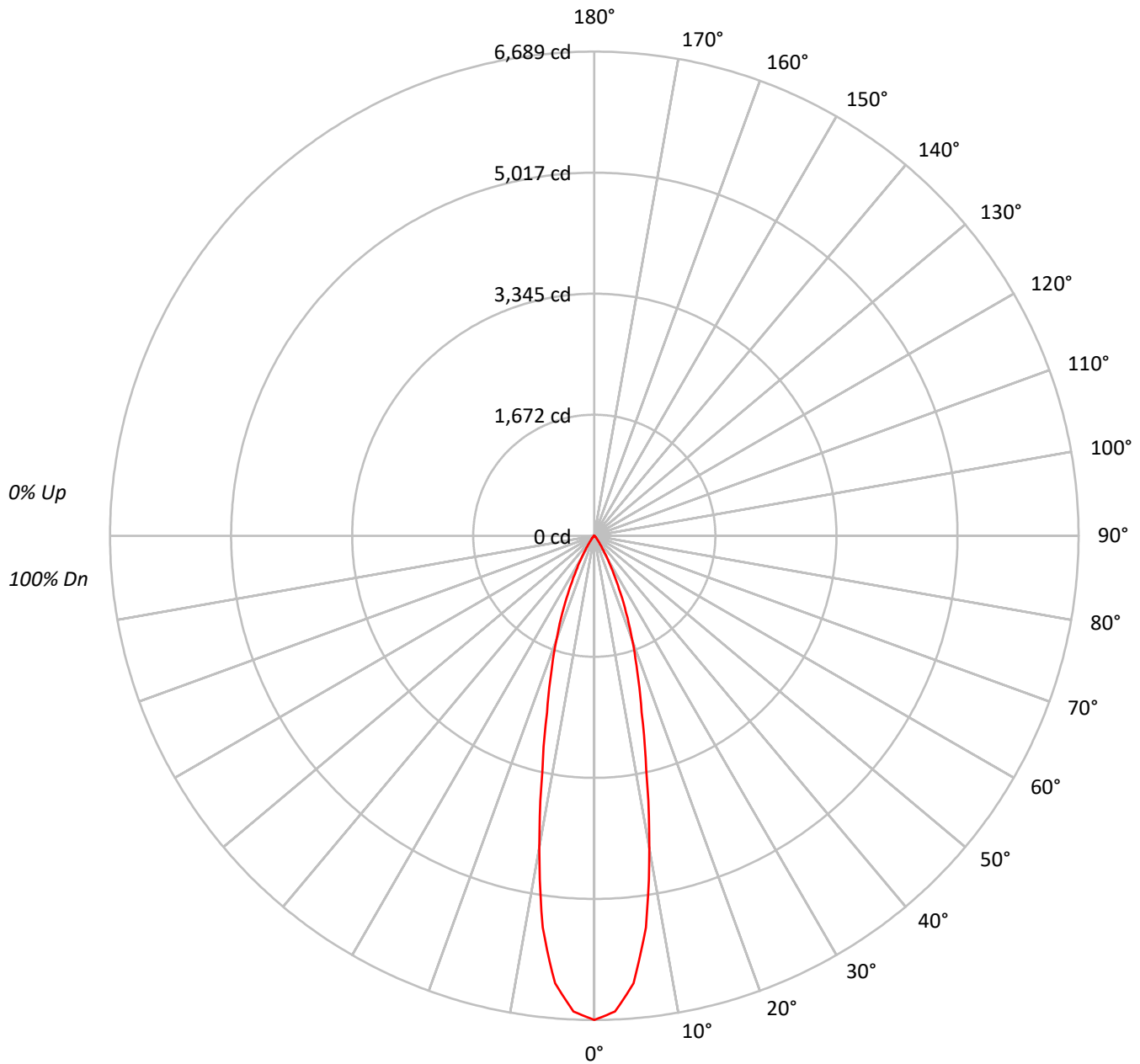
Downlight



TEST NUMBER: P780154

CATALOG NUMBER: LER4D20D010-EC4DR2520359027-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P780154

CATALOG NUMBER: LER4D20D010-EC4DR2520359027-4LBS1LI

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°	730845
5°	680684
10°	485556
15°	285966
20°	177944
25°	97650
30°	44662
35°	16913
40°	7659
45°	4605
50°	1904
55°	1238
60°	874
65°	569
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4605 cd/sqm



TEST NUMBER: P780154

CATALOG NUMBER: LER4D20D010-EC4DR2520359027-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.4	30.2
10°-20°	722.4	41.0
20°-30°	382.3	21.7
30°-40°	94.4	5.4
40°-50°	23.0	1.3
50°-60°	6.0	0.3
60°-70°	2.0	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°	1638.1	92.9
0°-40°	1732.5	98.2
0°-60°	1761.5	99.9
0°-90°	1763.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6689	
5°	6206	533
15°	2528	722
25°	810	382
35°	127	94
45°	30	23
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780154

CATALOG NUMBER: LER4D20D010-EC4DR2520359027-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	6689.0
2.5°	6579.0
5°	6206.2
7.5°	5457.2
10°	4376.5
12.5°	3308.3
15°	2528.1
17.5°	1970.3
20°	1530.4
22.5°	1147.7
25°	810.0
27.5°	543.2
30°	354.0
32.5°	215.4
35°	126.8
37.5°	77.6
40°	53.7
42.5°	41.0
45°	29.8
47.5°	18.0
50°	11.2
52.5°	8.1
55°	6.5
57.5°	5.0
60°	4.0
62.5°	3.1
65°	2.2
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)