

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: P780360

Luminaire Tested: LER4D20D010-EC4DR6520359050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780360
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: LER4D20D010-EC4DR6520359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1693.0 lumens
Efficiency: N/A
Efficacy: 73.3 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): 23.1
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



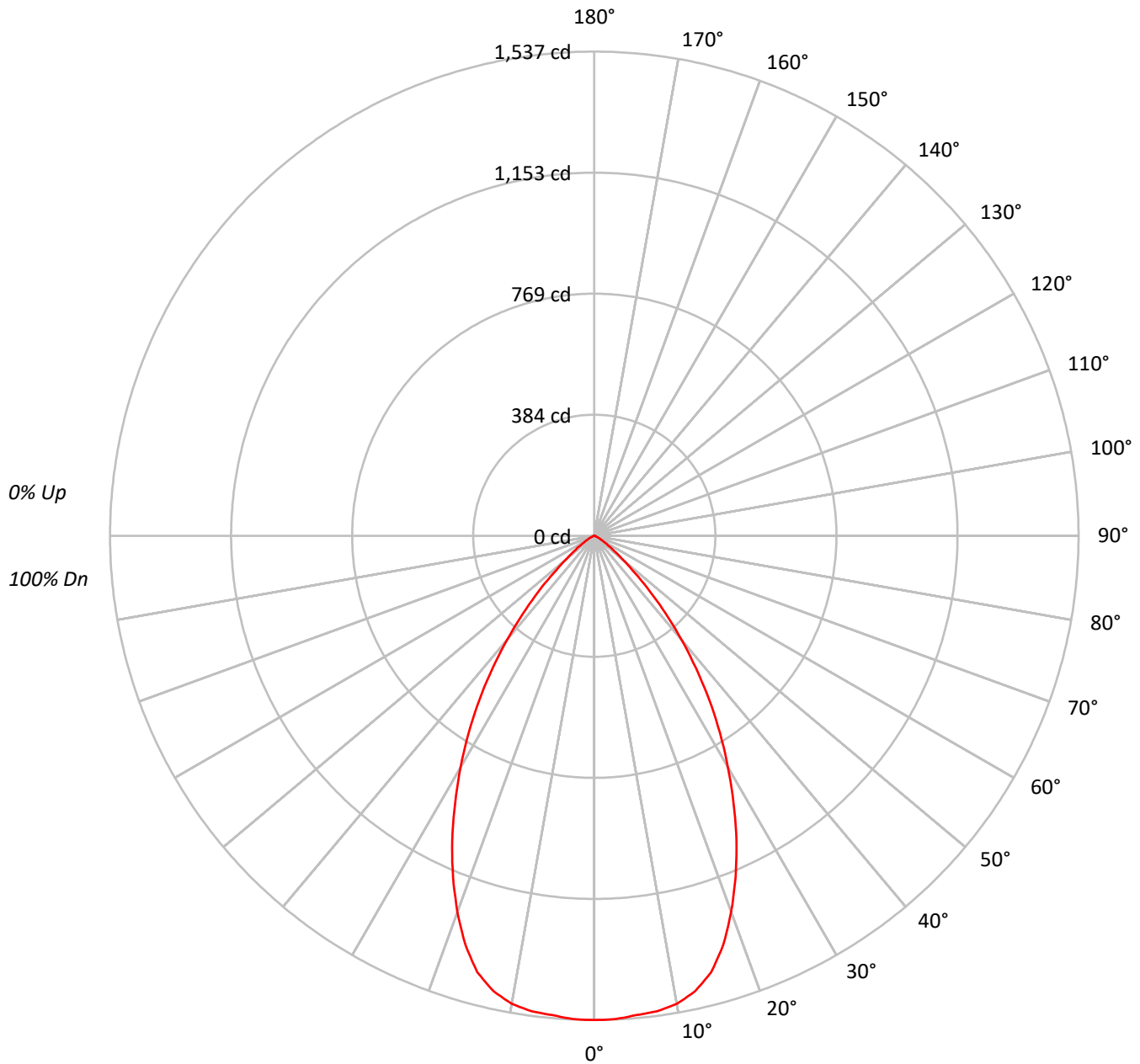
Downlight



TEST NUMBER: P780360

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P780360

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1B

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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93		
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85		
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78		
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61		
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52		
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49		
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	89778
5°	89547
10°	89473
15°	86718
20°	78946
25°	68791
30°	57215
35°	45338
40°	32723
45°	20674
50°	10776
55°	5733
60°	3002
65°	1658
70°	700
75°	767
80°	538
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20674 cd/sqm



TEST NUMBER: P780360

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	8.6
10°-20°	398.1	23.5
20°-30°	486.6	28.7
30°-40°	394.8	23.3
40°-50°	196.7	11.6
50°-60°	54.9	3.2
60°-70°	12.5	0.7
70°-80°	3.2	0.2
80°-90°	0.8	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°	1030.0	60.8
0°-40°	1424.8	84.2
0°-60°	1676.4	99.0
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1537	
5°	1527	145
15°	1434	398
25°	1068	487
35°	636	395
45°	250	197
55°	56	55
65°	12	12
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P780360

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1537.2
2.5°	1536.0
5°	1527.4
7.5°	1522.4
10°	1508.7
12.5°	1480.7
15°	1434.2
17.5°	1361.4
20°	1270.2
22.5°	1171.7
25°	1067.5
27.5°	956.2
30°	848.4
32.5°	742.0
35°	635.9
37.5°	529.9
40°	429.2
42.5°	334.8
45°	250.3
47.5°	174.4
50°	118.6
52.5°	81.8
55°	56.3
57.5°	37.9
60°	25.7
62.5°	17.8
65°	12.0
67.5°	6.1
70°	4.1
72.5°	3.8
75°	3.4
77.5°	2.2
80°	1.6
82.5°	1.1
85°	0.7
87.5°	0.5
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)