

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: P780363

Luminaire Tested: LER4D20D010-EC4DR6520359050-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780363
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-EC4DR6520359050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1732.7 lumens
Efficiency: N/A
Efficacy: 75.0 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 (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



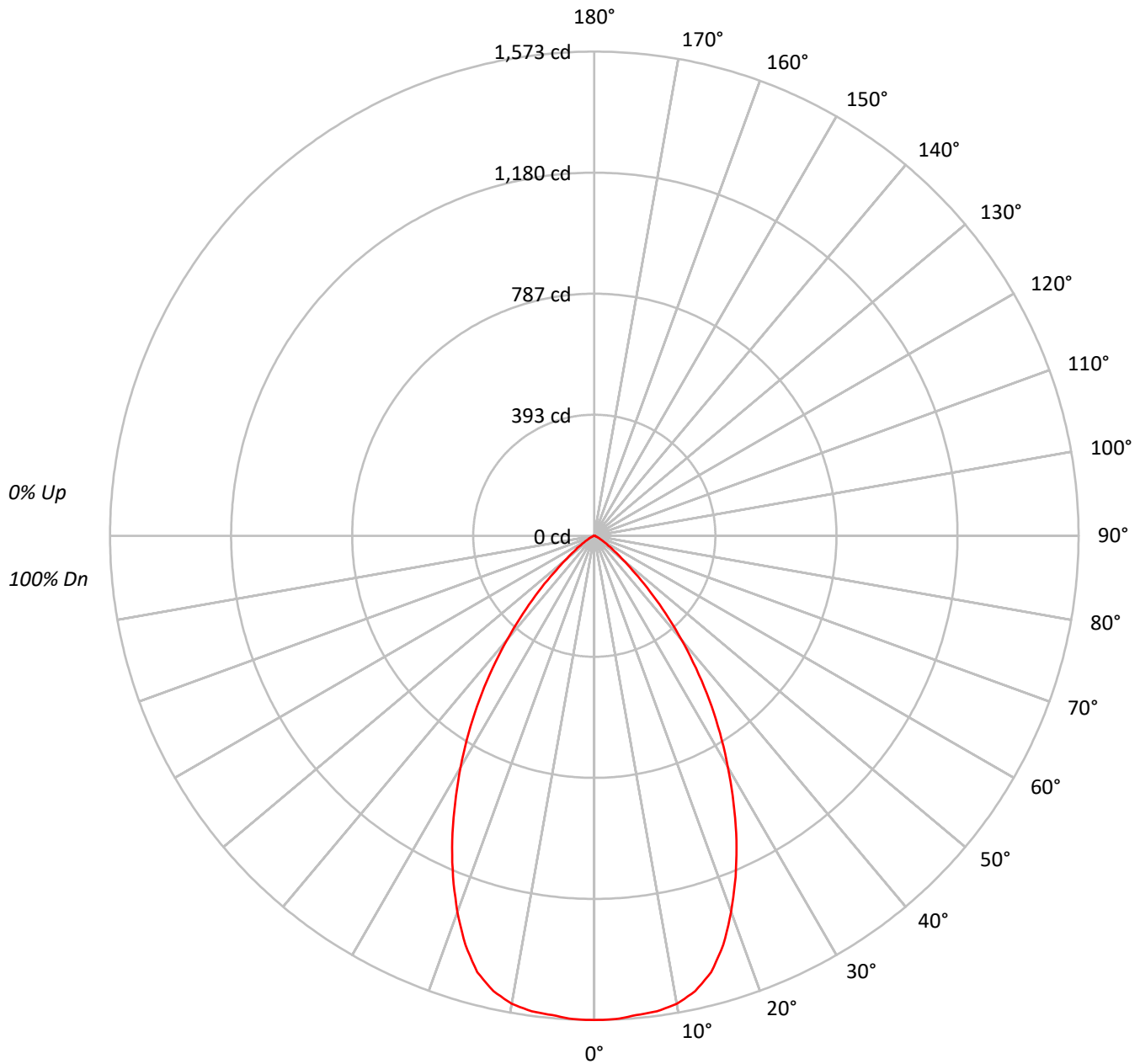
Downlight



TEST NUMBER: P780363

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1MW

Luminous Intensity Polar Plot



TEST NUMBER: P780363

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1MW

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°	91881
5°	91646
10°	91567
15°	88749
20°	80792
25°	70409
30°	58557
35°	46401
40°	33485
45°	21161
50°	11030
55°	5865
60°	3084
65°	1700
70°	717
75°	790
80°	538
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21161 cd/sqm

TEST NUMBER: P780363

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	8.6
10°-20°	407.4	23.5
20°-30°	498.0	28.7
30°-40°	404.1	23.3
40°-50°	201.4	11.6
50°-60°	56.2	3.2
60°-70°	12.8	0.7
70°-80°	3.3	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°	1054.1	60.8
0°-40°	1458.2	84.2
0°-60°	1715.7	99.0
0°-90°	1732.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1732.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1573	
5°	1563	149
15°	1468	407
25°	1093	498
35°	651	404
45°	256	201
55°	58	56
65°	12	13
75°	4	3
85°	1	1
90°	0	



TEST NUMBER: P780363

CATALOG NUMBER: LER4D20D010-EC4DR6520359050-4LBS1MW

CANDELA DISTRIBUTION (FULL):

0°	
0°	1573.2
2.5°	1572.0
5°	1563.2
7.5°	1558.1
10°	1544.0
12.5°	1515.4
15°	1467.8
17.5°	1393.3
20°	1299.9
22.5°	1199.1
25°	1092.6
27.5°	978.6
30°	868.3
32.5°	759.4
35°	650.8
37.5°	542.4
40°	439.2
42.5°	342.6
45°	256.2
47.5°	178.5
50°	121.4
52.5°	83.7
55°	57.6
57.5°	38.8
60°	26.4
62.5°	18.3
65°	12.3
67.5°	6.2
70°	4.2
72.5°	4.0
75°	3.5
77.5°	2.3
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)