

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: P780165

Luminaire Tested: LER4D20D010-EC4DR2520359040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780165
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-EC4DR2520359040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1881.5 lumens
Efficiency: N/A
Efficacy: 81.5 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 (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



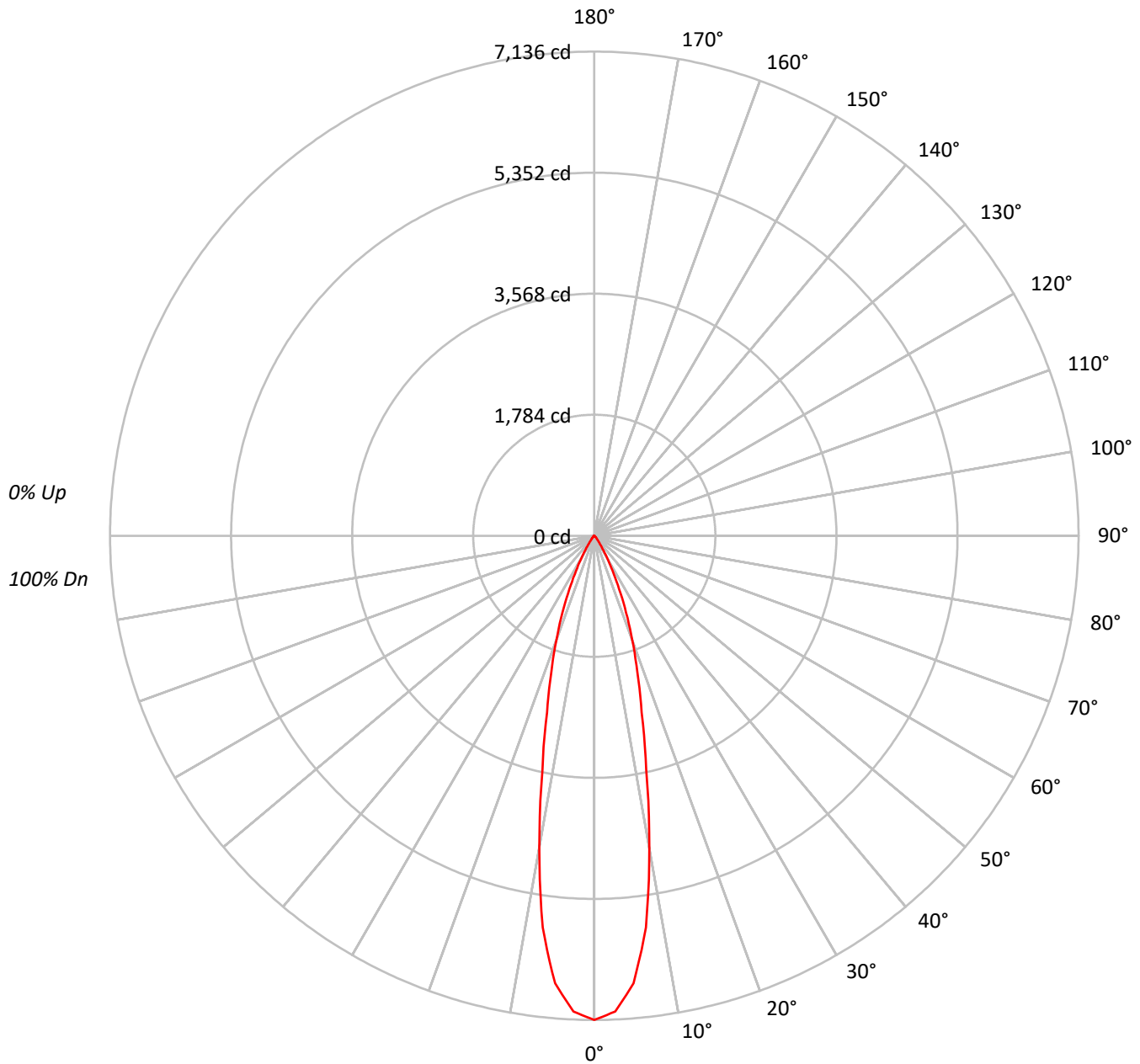
Downlight



TEST NUMBER: P780165

CATALOG NUMBER: LER4D20D010-EC4DR2520359040-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P780165

CATALOG NUMBER: LER4D20D010-EC4DR2520359040-4LBS1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	97	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	93	89	86	98	93	89	86	91	87	85		89	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	93	87	82	79	92	86	82	79	85	81	78		84	80	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	779696
5°	726190
10°	518008
15°	305094
20°	189827
25°	104172
30°	47639
35°	18047
40°	8173
45°	4914
50°	2040
55°	1314
60°	918
65°	620
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4914 cd/sqm



TEST NUMBER: P780165

CATALOG NUMBER: LER4D20D010-EC4DR2520359040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.0	30.2
10°-20°	770.7	41.0
20°-30°	407.8	21.7
30°-40°	100.7	5.4
40°-50°	24.6	1.3
50°-60°	6.5	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°	1747.6	92.9
0°-40°	1848.3	98.2
0°-60°	1879.3	99.9
0°-90°	1881.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1881.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7136	
5°	6621	569
15°	2697	771
25°	864	408
35°	135	101
45°	32	25
55°	7	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780165

CATALOG NUMBER: LER4D20D010-EC4DR2520359040-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	7136.1
2.5°	7018.8
5°	6621.1
7.5°	5822.0
10°	4669.0
12.5°	3529.5
15°	2697.2
17.5°	2102.0
20°	1632.6
22.5°	1224.4
25°	864.1
27.5°	579.5
30°	377.6
32.5°	229.8
35°	135.3
37.5°	82.8
40°	57.3
42.5°	43.8
45°	31.8
47.5°	19.2
50°	12.0
52.5°	8.7
55°	6.9
57.5°	5.4
60°	4.2
62.5°	3.3
65°	2.4
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)