

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: P780225

Luminaire Tested: LER4D20D010-EC4DR4020359027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR4020359027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1962.4 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
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



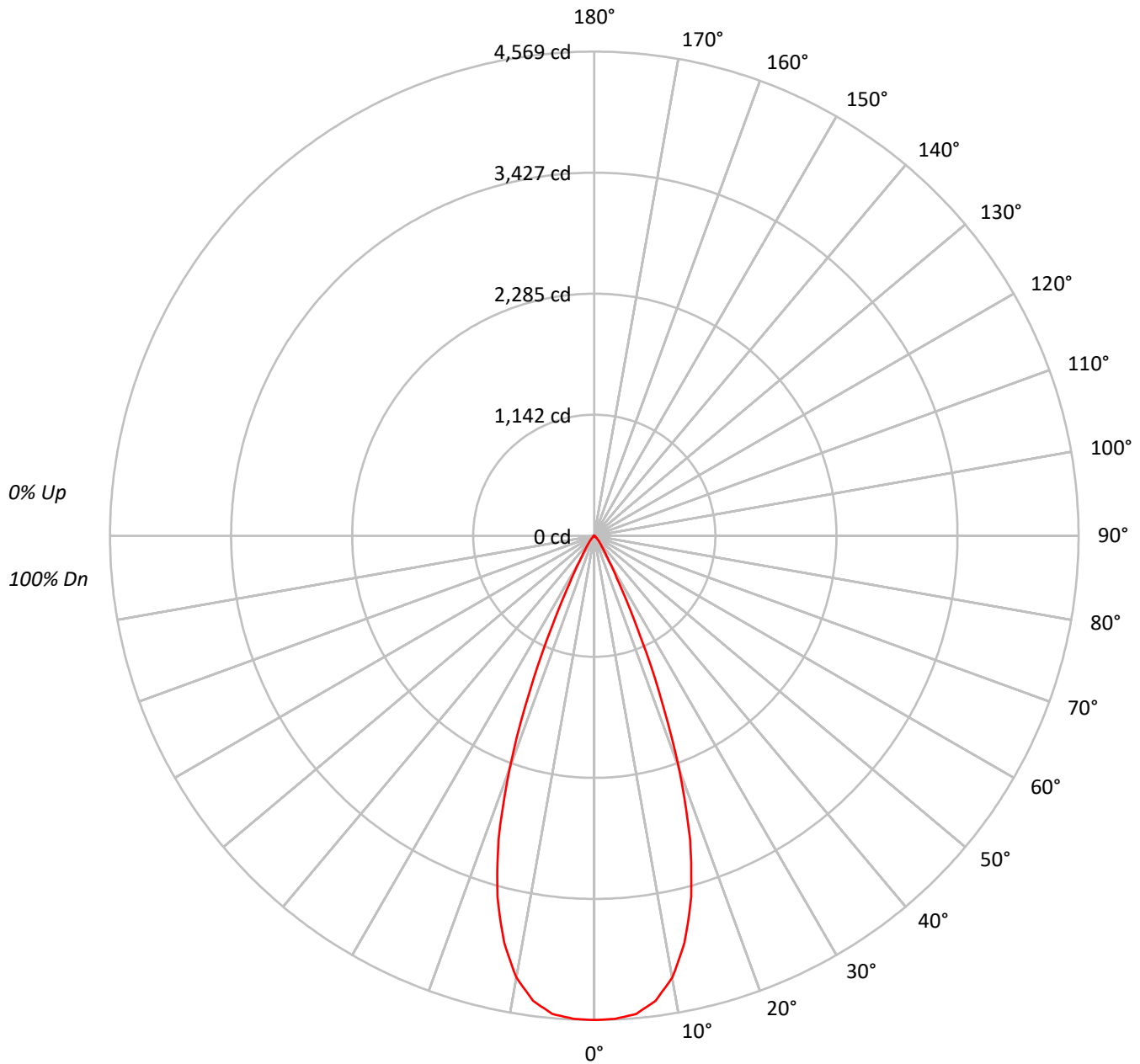
Downlight



TEST NUMBER: P780225

CATALOG NUMBER: LER4D20D010-EC4DR4020359027-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P780225

CATALOG NUMBER: LER4D20D010-EC4DR4020359027-4LBS1H

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	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		93
4	102	97	92	89	101	95	91	88	93	90	87		92	89	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	95	88	84	80	94	88	83	80	86	82	80		85	82	79		84
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81
8	89	82	77	74	88	81	77	74	80	76	73		79	76	73		78
9	86	79	74	71	85	78	74	71	77	73	71		77	73	70		76
10	83	76	71	68	82	75	71	68	75	71	68		74	70	68		73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	499212
5°	496787
10°	469569
15°	399194
20°	272079
25°	113515
30°	35692
35°	16593
40°	9171
45°	4203
50°	2040
55°	1105
60°	590
65°	207
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4203 cd/sqm



TEST NUMBER: P780225

CATALOG NUMBER: LER4D20D010-EC4DR4020359027-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.9	21.6
10°-20°	947.5	48.3
20°-30°	474.3	24.2
30°-40°	86.9	4.4
40°-50°	24.0	1.2
50°-60°	5.6	0.3
60°-70°	1.1	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°	1844.7	94.0
0°-40°	1931.6	98.4
0°-60°	1961.3	99.9
0°-90°	1962.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1962.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4569	
5°	4530	423
15°	3529	947
25°	942	474
35°	124	87
45°	27	24
55°	6	6
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780225

CATALOG NUMBER: LER4D20D010-EC4DR4020359027-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	4569.0
2.5°	4562.3
5°	4529.5
7.5°	4424.8
10°	4232.4
12.5°	3932.4
15°	3529.1
17.5°	3004.6
20°	2340.0
22.5°	1595.3
25°	941.6
27.5°	497.8
30°	282.9
32.5°	182.8
35°	124.4
37.5°	88.9
40°	64.3
42.5°	44.1
45°	27.2
47.5°	17.4
50°	12.0
52.5°	8.5
55°	5.8
57.5°	3.7
60°	2.7
62.5°	1.6
65°	0.8
67.5°	0.5
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)