

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: P780290

Luminaire Tested: LER4D20D010-EC4DR5020359050-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR5020359050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2266.6 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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



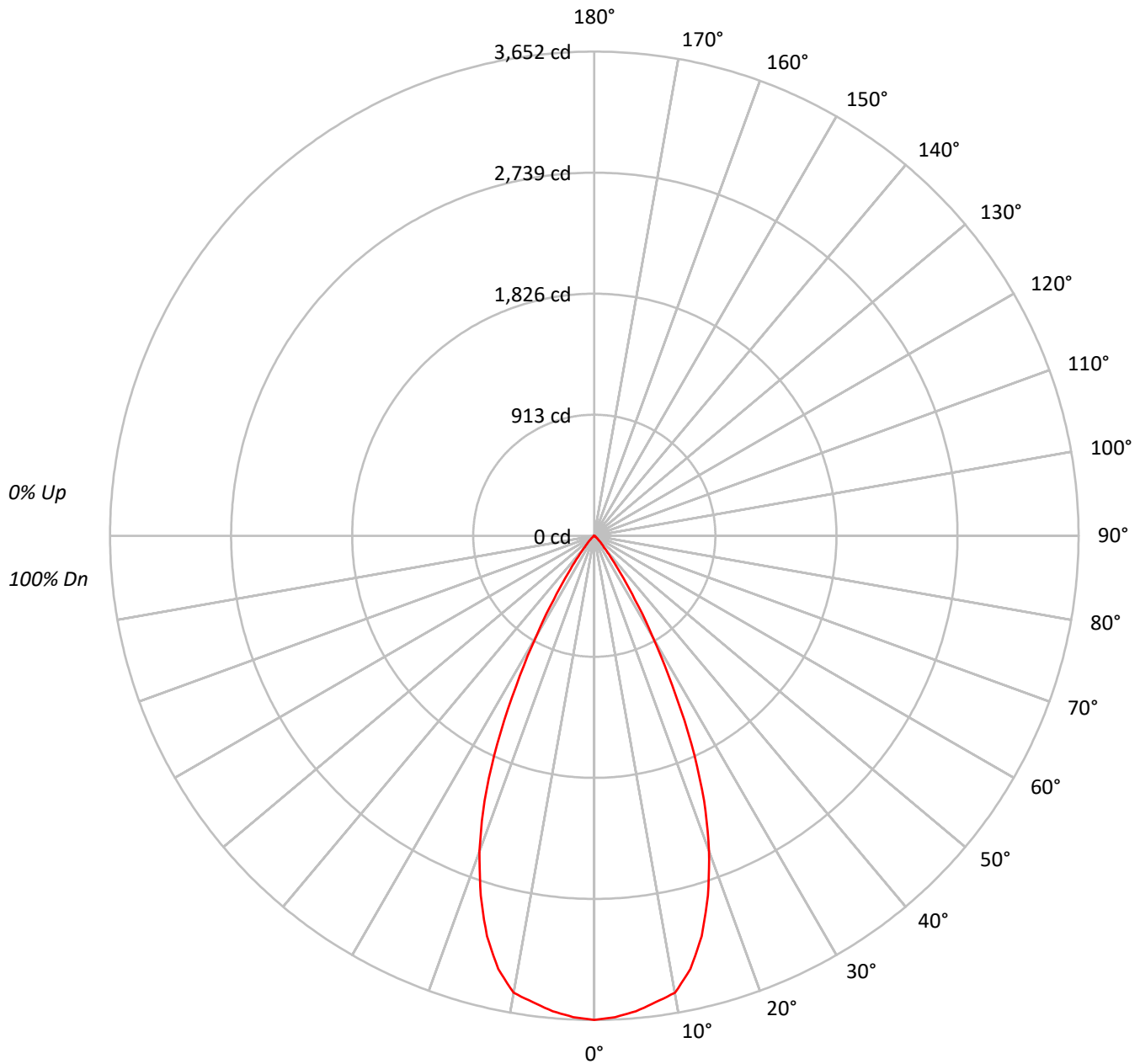
Downlight



TEST NUMBER: P780290

CATALOG NUMBER: LER4D20D010-EC4DR5020359050-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P780290

CATALOG NUMBER: LER4D20D010-EC4DR5020359050-4LBS1LI

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	114	112	109	107	112	110	108	106	106	104	102		102	101	99		98
2	109	105	101	98	107	103	100	97	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	90	87	84		89	85	83		87
5	96	89	84	80	95	88	83	79	86	82	79		85	81	78		83
6	92	84	79	75	91	83	79	75	82	78	74		81	77	74		79
7	88	80	75	71	87	79	74	71	78	74	71		77	73	70		76
8	85	76	71	67	84	76	71	67	75	70	67		74	70	67		73
9	81	73	68	64	80	72	67	64	71	67	64		71	67	64		70
10	78	70	64	61	77	69	64	61	68	64	61		68	64	61		67

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	399020
5°	394841
10°	388334
15°	353609
20°	294252
25°	208863
30°	110557
35°	45057
40°	16730
45°	7664
50°	3128
55°	1638
60°	809
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7664 cd/sqm



TEST NUMBER: P780290

CATALOG NUMBER: LER4D20D010-EC4DR5020359050-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.3	15.0
10°-20°	859.9	37.9
20°-30°	772.5	34.1
30°-40°	241.9	10.7
40°-50°	42.4	1.9
50°-60°	8.4	0.4
60°-70°	1.3	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°	1972.7	87.0
0°-40°	2214.5	97.7
0°-60°	2265.3	99.9
0°-90°	2266.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2266.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3652	
5°	3600	340
15°	3126	860
25°	1732	772
35°	338	242
45°	50	42
55°	9	8
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780290

CATALOG NUMBER: LER4D20D010-EC4DR5020359050-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	3652.0
2.5°	3633.9
5°	3600.0
7.5°	3548.3
10°	3500.2
12.5°	3346.3
15°	3126.1
17.5°	2846.5
20°	2530.7
22.5°	2165.2
25°	1732.5
27.5°	1273.8
30°	876.3
32.5°	570.5
35°	337.8
37.5°	194.0
40°	117.3
42.5°	76.4
45°	49.6
47.5°	30.2
50°	18.4
52.5°	12.6
55°	8.6
57.5°	5.8
60°	3.7
62.5°	2.2
65°	0.9
67.5°	0.3
70°	0.0
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)