

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: P780353

Luminaire Tested: LER4D20D010-EC4DR6520359035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780353
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-EC4DR6520359035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1795.5 lumens
Efficiency: N/A
Efficacy: 77.7 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



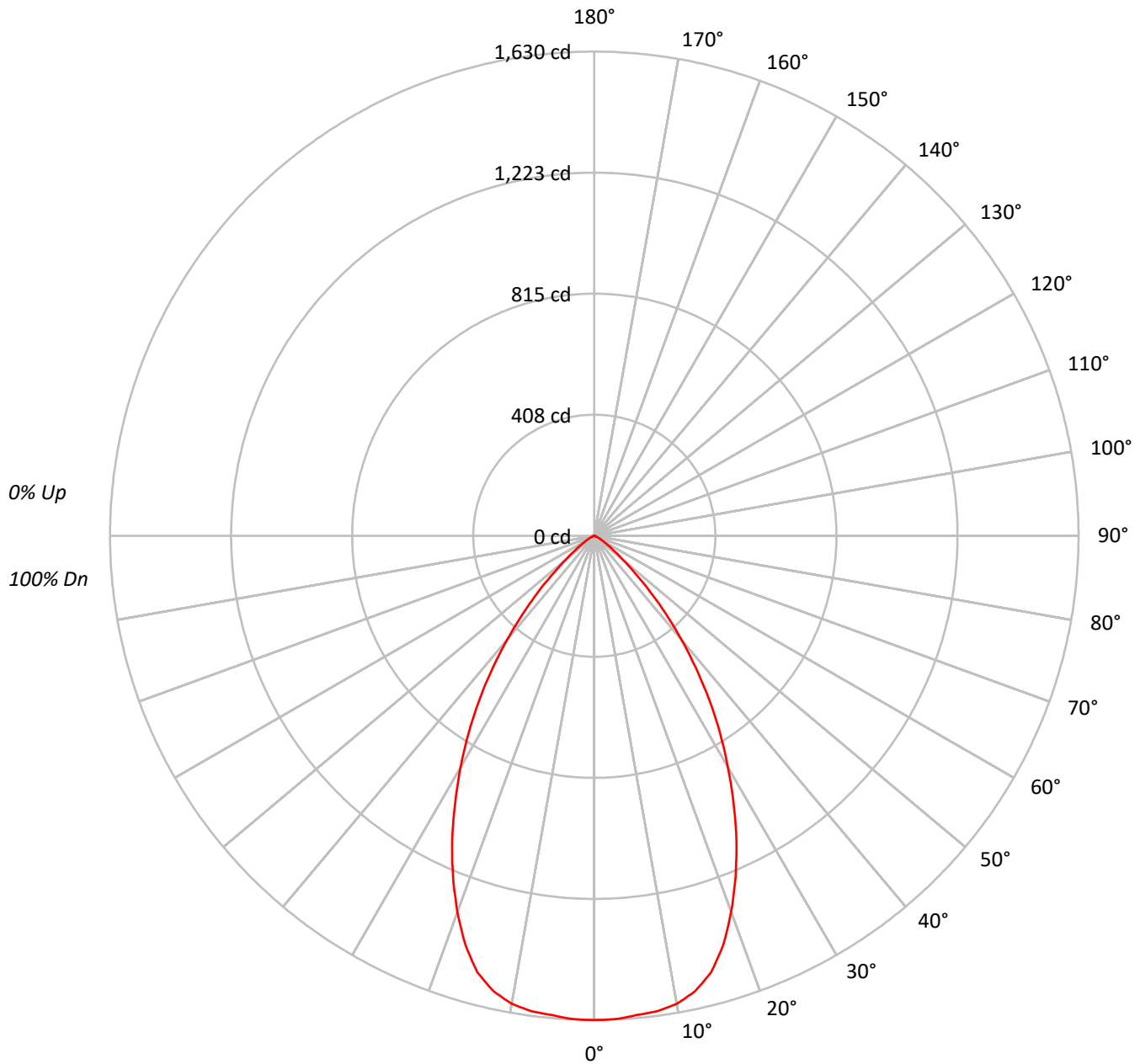
Downlight



TEST NUMBER: P780353

CATALOG NUMBER: LER4D20D010-EC4DR6520359035-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P780353

CATALOG NUMBER: LER4D20D010-EC4DR6520359035-4LBS1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	95216
5°	94976
10°	94894
15°	91966
20°	83725
25°	72961
30°	60682
35°	48083
40°	34705
45°	21921
50°	11430
55°	6069
60°	3189
65°	1755
70°	734
75°	812
80°	572
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21921 cd/sqm

TEST NUMBER: P780353

CATALOG NUMBER: LER4D20D010-EC4DR6520359035-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	8.6
10°-20°	422.2	23.5
20°-30°	516.0	28.7
30°-40°	418.7	23.3
40°-50°	208.6	11.6
50°-60°	58.2	3.2
60°-70°	13.2	0.7
70°-80°	3.5	0.2
80°-90°	0.9	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°	1092.4	60.8
0°-40°	1511.1	84.2
0°-60°	1777.9	99.0
0°-90°	1795.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1630	
5°	1620	154
15°	1521	422
25°	1132	516
35°	674	419
45°	265	209
55°	60	58
65°	13	13
75°	4	3
85°	1	1
90°	0	



TEST NUMBER: P780353

CATALOG NUMBER: LER4D20D010-EC4DR6520359035-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°
0°	1630.3
2.5°	1629.1
5°	1620.0
7.5°	1614.7
10°	1600.1
12.5°	1570.3
15°	1521.0
17.5°	1443.9
20°	1347.1
22.5°	1242.6
25°	1132.2
27.5°	1014.1
30°	899.8
32.5°	787.0
35°	674.4
37.5°	562.0
40°	455.2
42.5°	355.1
45°	265.4
47.5°	184.9
50°	125.8
52.5°	86.7
55°	59.6
57.5°	40.2
60°	27.3
62.5°	18.9
65°	12.7
67.5°	6.5
70°	4.3
72.5°	4.1
75°	3.6
77.5°	2.4
80°	1.7
82.5°	1.2
85°	0.7
87.5°	0.5
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)