

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: P780648

Luminaire Tested: LER4D25D010-EC4DR6520359050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780648
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: LER4D25D010-EC4DR6520359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2187.7 lumens
Efficiency: N/A
Efficacy: 87.2 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): 25.1
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



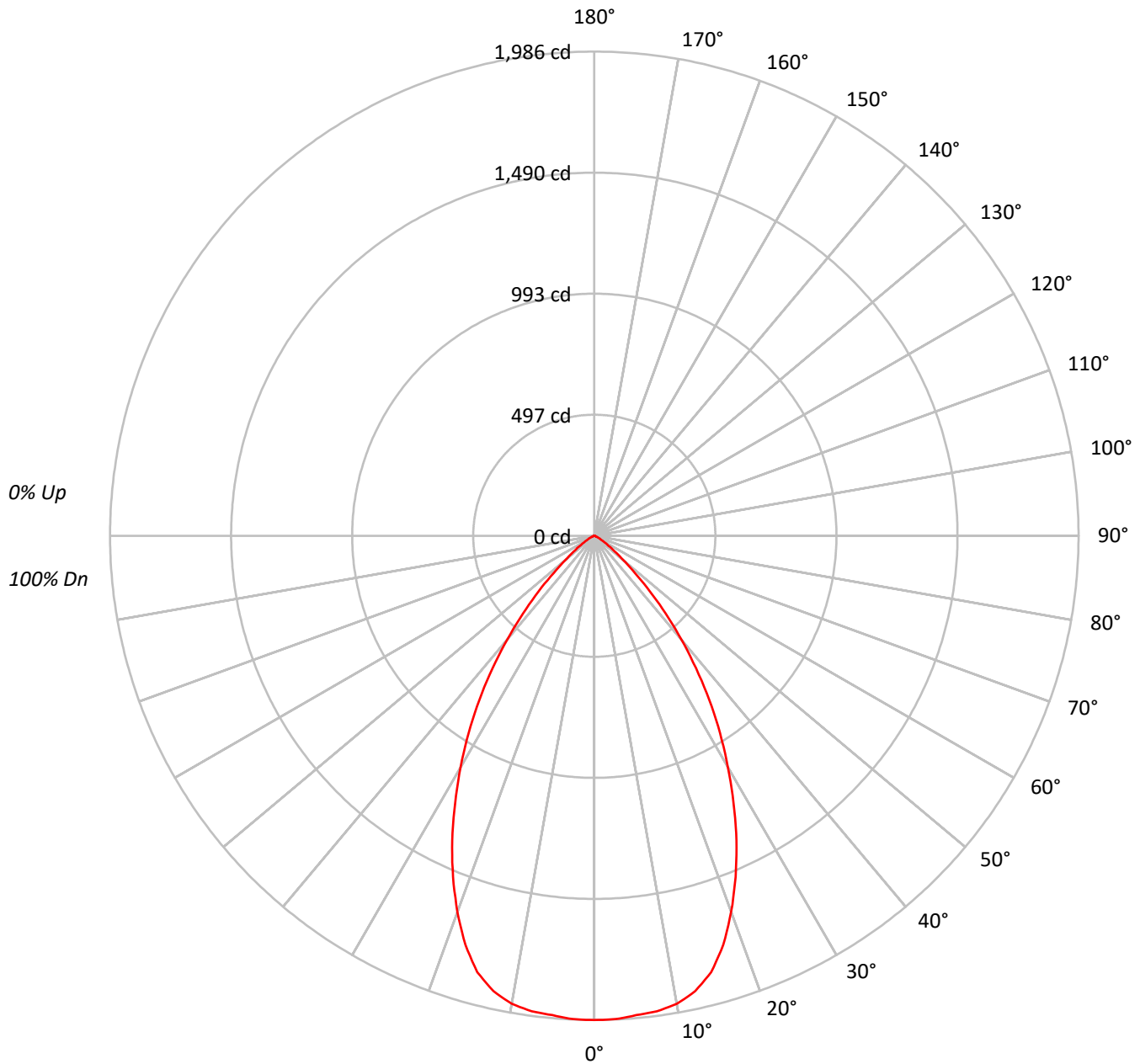
Downlight



TEST NUMBER: P780648

CATALOG NUMBER: LER4D25D010-EC4DR6520359050-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P780648

CATALOG NUMBER: LER4D25D010-EC4DR6520359050-4LBS1B

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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116008
5°	115718
10°	115621
15°	112052
20°	102010
25°	88897
30°	73933
35°	58586
40°	42283
45°	26711
50°	13929
55°	7403
60°	3890
65°	2142
70°	905
75°	993
80°	706
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26711 cd/sqm



TEST NUMBER: P780648

CATALOG NUMBER: LER4D25D010-EC4DR6520359050-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.8	8.6
10°-20°	514.4	23.5
20°-30°	628.8	28.7
30°-40°	510.2	23.3
40°-50°	254.2	11.6
50°-60°	70.9	3.2
60°-70°	16.1	0.7
70°-80°	4.2	0.2
80°-90°	1.1	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°	1331.0	60.8
0°-40°	1841.1	84.2
0°-60°	2166.3	99.0
0°-90°	2187.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2187.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1986	
5°	1974	188
15°	1853	514
25°	1380	629
35°	822	510
45°	323	254
55°	73	71
65°	16	16
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P780648

CATALOG NUMBER: LER4D25D010-EC4DR6520359050-4LBS1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	1986.3
2.5°	1984.9
5°	1973.8
7.5°	1967.3
10°	1949.6
12.5°	1913.4
15°	1853.2
17.5°	1759.2
20°	1641.3
22.5°	1514.0
25°	1379.5
27.5°	1235.6
30°	1096.3
32.5°	958.9
35°	821.7
37.5°	684.8
40°	554.6
42.5°	432.6
45°	323.4
47.5°	225.3
50°	153.3
52.5°	105.7
55°	72.7
57.5°	49.0
60°	33.3
62.5°	23.0
65°	15.5
67.5°	7.9
70°	5.3
72.5°	5.0
75°	4.4
77.5°	2.9
80°	2.1
82.5°	1.4
85°	0.9
87.5°	0.6
90°	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)