

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: P780477

Luminaire Tested: LER4D25D010-EC4DR3020359040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR3020359040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2657.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' 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



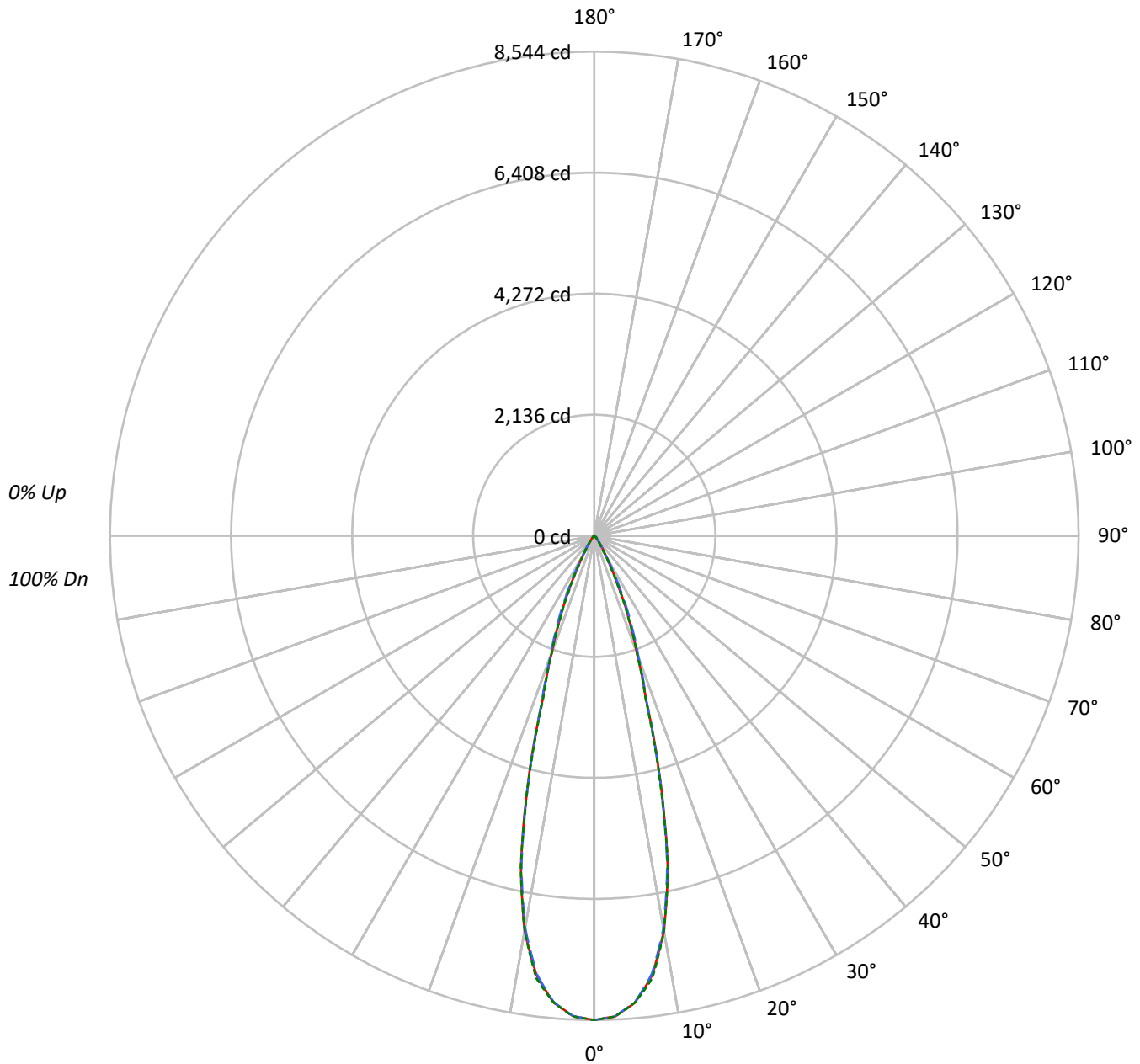
Downlight



TEST NUMBER: P780477

CATALOG NUMBER: LER4D25D010-EC4DR3020359040-4LBS1H

Luminous Intensity Polar Plot



TEST NUMBER: P780477

CATALOG NUMBER: LER4D25D010-EC4DR3020359040-4LBS1H

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	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	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°	45°	90°
0°	654002	654002	654002
5°	635224	634487	635263
10°	550202	546323	550077
15°	358981	357048	355257
20°	178502	185198	178266
25°	89921	101398	88079
30°	35999	39225	31368
35°	16698	15988	13409
40°	7204	8004	6795
45°	5088	6311	5131
50°	1750	4597	1846
55°	1014	1908	1068
60°	704	827	704
65°	453	453	453
70°	291	201	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6311 cd/sqm



TEST NUMBER: P780477

CATALOG NUMBER: LER4D25D010-EC4DR3020359040-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.3	28.3
10°-20°	1210.0	45.5
20°-30°	522.9	19.7
30°-40°	119.2	4.5
40°-50°	40.9	1.5
50°-60°	10.0	0.4
60°-70°	2.6	0.1
70°-80°	0.3	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°	2484.3	93.5
0°-40°	2603.4	98.0
0°-60°	2654.3	99.9
0°-90°	2657.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8544	8544	8544	8544	8544	
5°	8267	8259	8258	8275	8268	752
15°	4530	4476	4506	4491	4483	1213
25°	1065	1105	1201	1077	1043	510
35°	179	182	171	170	144	121
45°	47	58	58	58	47	33
55°	8	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P780477

CATALOG NUMBER: LER4D25D010-EC4DR3020359040-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8544.2	8544.2	8544.2	8544.2	8544.2
2.5°	8487.6	8481.7	8485.1	8489.3	8491.0
5°	8267.3	8259.4	8257.7	8274.9	8267.8
7.5°	7823.1	7811.8	7794.6	7833.6	7870.1
10°	7078.9	7066.4	7029.0	7047.5	7077.3
12.5°	5980.3	5939.6	5938.7	5997.5	5989.5
15°	4530.1	4475.5	4505.7	4491.1	4483.1
17.5°	3046.4	3025.4	3065.6	3053.5	3001.1
20°	2191.4	2196.9	2273.6	2235.1	2188.5
22.5°	1599.1	1618.8	1709.9	1610.5	1574.0
25°	1064.7	1104.9	1200.6	1076.9	1042.9
27.5°	654.8	673.3	770.2	646.5	628.0
30°	407.3	398.1	443.8	380.9	354.9
32.5°	267.2	255.5	270.1	242.5	221.5
35°	178.7	182.5	171.1	169.9	143.5
37.5°	111.6	128.3	113.3	120.8	92.3
40°	72.1	93.1	80.1	88.5	68.0
42.5°	59.1	71.7	65.8	70.1	60.4
45°	47.0	58.3	58.3	58.3	47.4
47.5°	26.0	39.0	49.9	39.9	27.7
50°	14.7	19.7	38.6	20.6	15.5
52.5°	10.1	11.3	26.4	11.7	10.5
55°	7.6	8.0	14.3	8.4	8.0
57.5°	5.9	6.3	7.6	6.3	5.9
60°	4.6	4.6	5.4	5.0	4.6
62.5°	3.4	3.4	3.8	3.4	3.4
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)