

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: P780520

Luminaire Tested: LER4D25D010-EC4DR4020359035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780520
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: LER4D25D010-EC4DR4020359035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2595.9 lumens
Efficiency: N/A
Efficacy: 103.4 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): 25.1
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



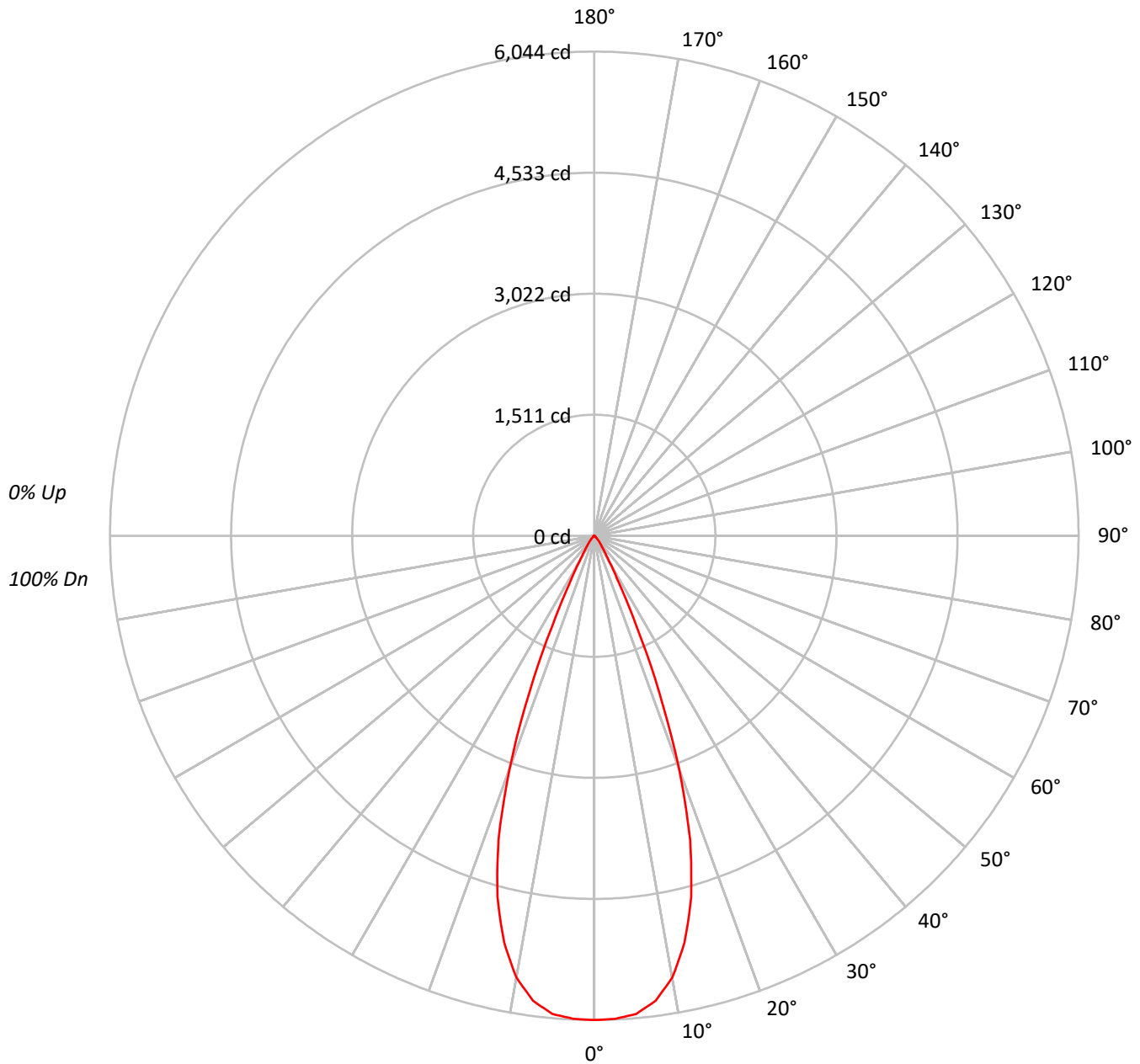
Downlight



TEST NUMBER: P780520

CATALOG NUMBER: LER4D25D010-EC4DR4020359035-4LBS1B

Luminous Intensity Polar Plot



TEST NUMBER: P780520

CATALOG NUMBER: LER4D25D010-EC4DR4020359035-4LBS1B

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
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		76	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°	660372
5°	657158
10°	621166
15°	528066
20°	359911
25°	150176
30°	47223
35°	21955
40°	12138
45°	5563
50°	2703
55°	1486
60°	787
65°	259
70°	96
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5563 cd/sqm



TEST NUMBER: P780520

CATALOG NUMBER: LER4D25D010-EC4DR4020359035-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.5	21.6
10°-20°	1253.4	48.3
20°-30°	627.4	24.2
30°-40°	115.0	4.4
40°-50°	31.7	1.2
50°-60°	7.5	0.3
60°-70°	1.4	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°	2440.3	94.0
0°-40°	2555.3	98.4
0°-60°	2594.5	99.9
0°-90°	2595.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2595.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6044	
5°	5992	559
15°	4668	1253
25°	1246	627
35°	165	115
45°	36	32
55°	8	7
65°	1	1
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P780520

CATALOG NUMBER: LER4D25D010-EC4DR4020359035-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	6044.0
2.5°	6035.1
5°	5991.7
7.5°	5853.3
10°	5598.8
12.5°	5201.9
15°	4668.4
17.5°	3974.6
20°	3095.4
22.5°	2110.3
25°	1245.7
27.5°	658.5
30°	374.3
32.5°	241.8
35°	164.6
37.5°	117.6
40°	85.1
42.5°	58.3
45°	36.0
47.5°	23.0
50°	15.9
52.5°	11.3
55°	7.8
57.5°	4.9
60°	3.6
62.5°	2.1
65°	1.0
67.5°	0.7
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)