

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: P780635

Luminaire Tested: LER4D25D010-EC4DR6520359027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780635
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-EC4DR6520359027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2022.6 lumens
Efficiency: N/A
Efficacy: 80.6 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



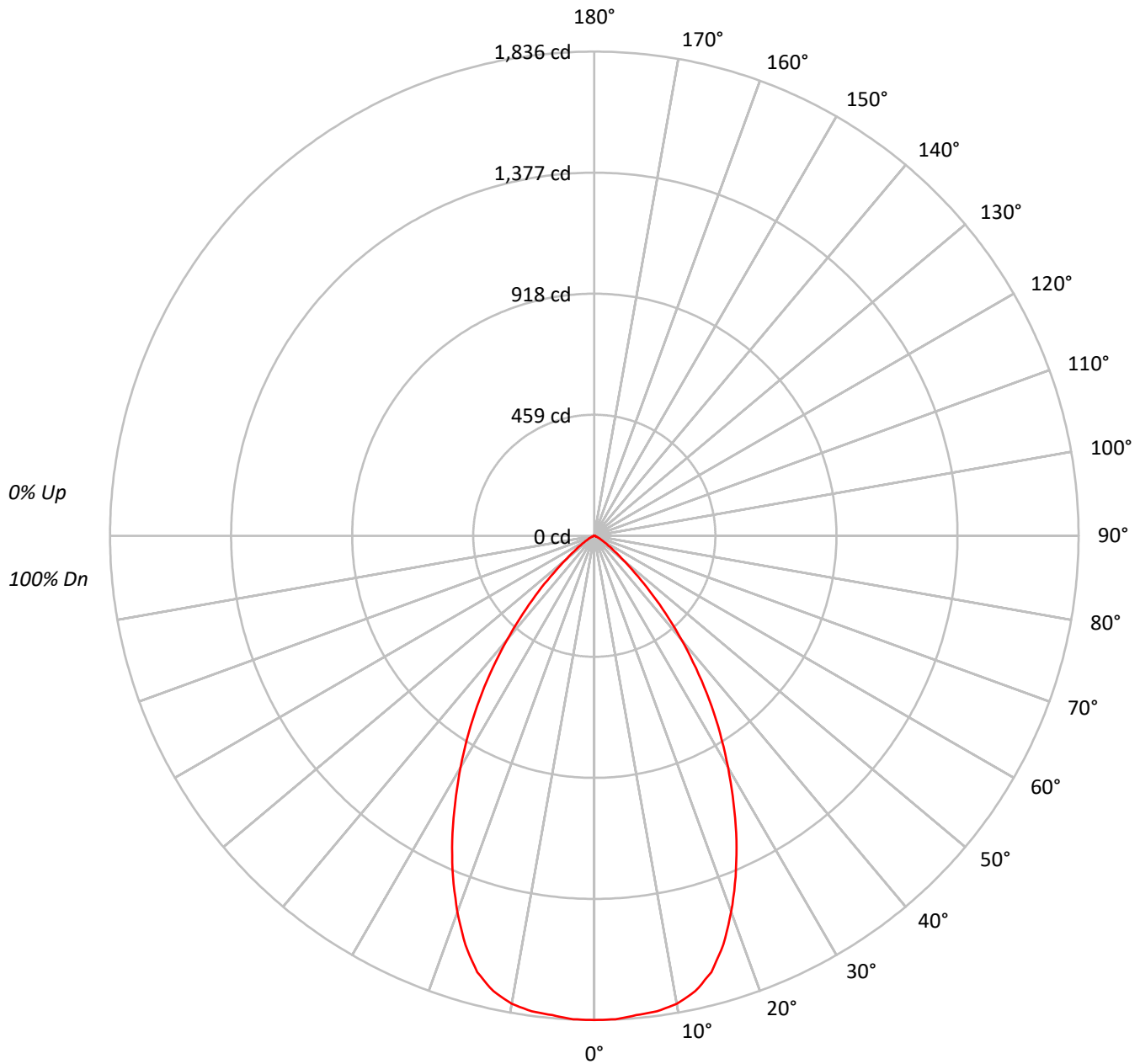
Downlight



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Luminous Intensity Polar Plot





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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°	107253
5°	106982
10°	106891
15°	103599
20°	94316
25°	82189
30°	68356
35°	54165
40°	39089
45°	24696
50°	12875
55°	6843
60°	3598
65°	1976
70°	837
75°	925
80°	639
85°	536

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 24696 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	8.6
10°-20°	475.6	23.5
20°-30°	581.3	28.7
30°-40°	471.7	23.3
40°-50°	235.0	11.6
50°-60°	65.6	3.2
60°-70°	14.9	0.7
70°-80°	3.9	0.2
80°-90°	1.0	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°	1230.6	60.8
0°-40°	1702.2	84.2
0°-60°	2002.8	99.0
0°-90°	2022.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2022.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1836	
5°	1825	174
15°	1713	476
25°	1275	581
35°	760	472
45°	299	235
55°	67	66
65°	14	15
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1836.4
2.5°	1835.1
5°	1824.8
7.5°	1818.9
10°	1802.4
12.5°	1769.0
15°	1713.4
17.5°	1626.5
20°	1517.5
22.5°	1399.8
25°	1275.4
27.5°	1142.3
30°	1013.6
32.5°	886.5
35°	759.7
37.5°	633.1
40°	512.7
42.5°	399.9
45°	299.0
47.5°	208.3
50°	141.7
52.5°	97.7
55°	67.2
57.5°	45.3
60°	30.8
62.5°	21.3
65°	14.3
67.5°	7.3
70°	4.9
72.5°	4.6
75°	4.1
77.5°	2.7
80°	1.9
82.5°	1.4
85°	0.8
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)