

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: P780675

Luminaire Tested: LER4D25D010-EC4DR7020359050-4LBS1MW

Issue Date: 1/31/2024

Test Information

Test Method: LM-79-2019
Report Number: P780675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/31/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR7020359050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2577.4 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
Luminous Opening: Circular (Dia: 0.35' 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



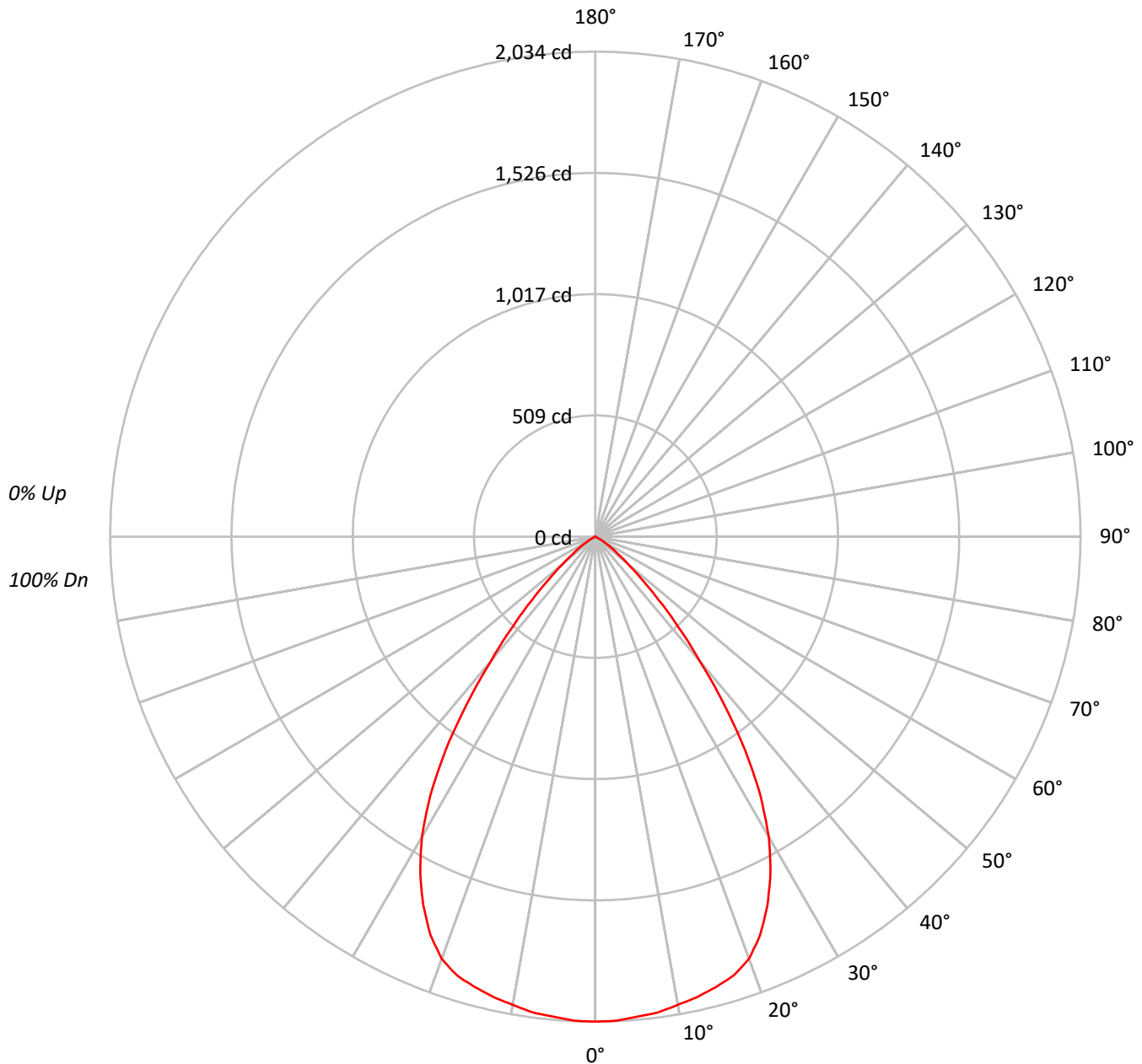
Downlight



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	113	110	107	105	111	108	106	103		104	102	100			100	99	97			93
2	107	102	97	94	105	100	96	92		97	93	90			94	91	88			85
3	101	94	88	84	99	92	87	83		90	85	82			87	84	81			78
4	95	87	81	76	93	86	80	76		83	78	75			81	77	74			71
5	89	80	74	69	88	79	73	69		78	72	68			76	71	68			65
6	84	75	68	63	83	74	68	63		72	67	63			71	66	62			60
7	80	69	63	58	78	69	63	58		67	62	58			66	61	57			56
8	75	65	58	54	74	64	58	54		63	57	53			62	57	53			51
9	71	61	54	50	70	60	54	50		59	53	50			58	53	49			48
10	67	57	50	46	66	56	50	46		55	50	46			55	50	46			44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	222269
5°	221714
10°	221238
15°	221174
20°	219012
25°	205729
30°	183404
35°	146228
40°	97102
45°	58052
50°	30086
55°	15811
60°	5594
65°	78
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 58052 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.2	7.5
10°-20°	551.4	21.4
20°-30°	777.8	30.2
30°-40°	671.4	26.1
40°-50°	300.7	11.7
50°-60°	78.7	3.1
60°-70°	5.1	0.2
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°	1521.4	59.0
0°-40°	2192.9	85.1
0°-60°	2572.3	99.8
0°-90°	2577.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2577.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2034	
5°	2022	192
15°	1955	551
25°	1706	778
35°	1096	671
45°	376	301
55°	83	79
65°	0	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2034.3
2.5°	2032.1
5°	2021.5
7.5°	2012.7
10°	1994.1
12.5°	1977.3
15°	1955.3
17.5°	1930.1
20°	1883.6
22.5°	1807.1
25°	1706.5
27.5°	1589.9
30°	1453.7
32.5°	1287.3
35°	1096.3
37.5°	885.7
40°	680.8
42.5°	517.3
45°	375.7
47.5°	259.0
50°	177.0
52.5°	122.2
55°	83.0
57.5°	50.1
60°	25.6
62.5°	8.0
65°	0.3
67.5°	0.0
70°	0.0
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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)