

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: P780639

Luminaire Tested: LER4D25D010-EC4DR6520359030-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780639
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-EC4DR6520359030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.4 lumens
Efficiency: N/A
Efficacy: 83.2 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



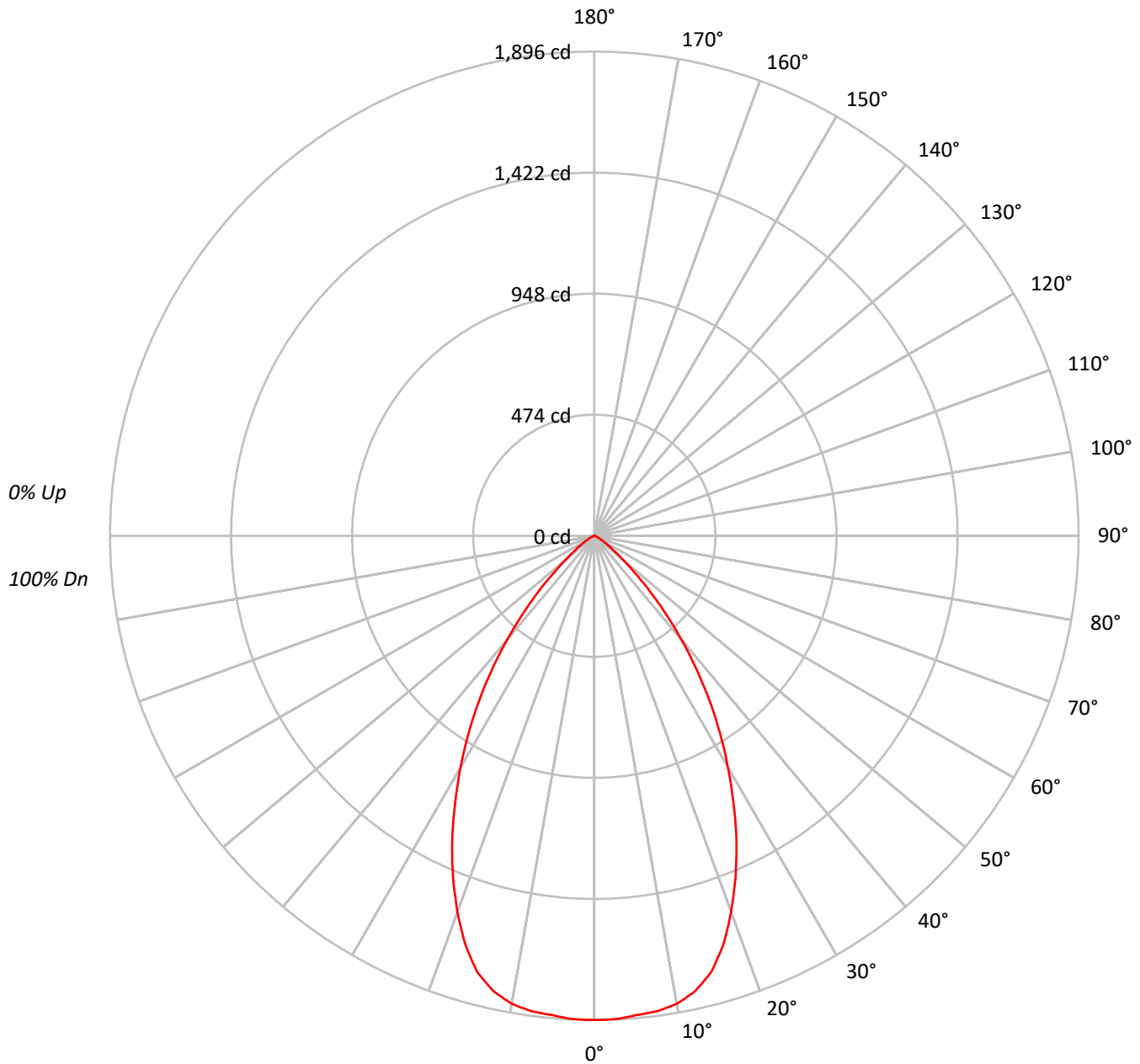
Downlight



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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	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	102	102	102	100	100	100				
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	97	95	94	93	93				
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85				
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	78				
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61				
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56				
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52	52	52				
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49	49	49				
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46	46	46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	110745
5°	110471
10°	110372
15°	106973
20°	97380
25°	84863
30°	70582
35°	55926
40°	40370
45°	25506
50°	13293
55°	7067
60°	3703
65°	2045
70°	854
75°	948
80°	639
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 25506 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	8.6
10°-20°	491.1	23.5
20°-30°	600.2	28.7
30°-40°	487.0	23.3
40°-50°	242.7	11.6
50°-60°	67.7	3.2
60°-70°	15.4	0.7
70°-80°	4.0	0.2
80°-90°	1.0	0.1
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°	1270.6	60.8
0°-40°	1757.6	84.2
0°-60°	2068.0	99.0
0°-90°	2088.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1896	
5°	1884	179
15°	1769	491
25°	1317	600
35°	784	487
45°	309	243
55°	69	68
65°	15	15
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1896.2
2.5°	1894.8
5°	1884.3
7.5°	1878.1
10°	1861.1
12.5°	1826.6
15°	1769.2
17.5°	1679.4
20°	1566.8
22.5°	1445.4
25°	1316.9
27.5°	1179.5
30°	1046.6
32.5°	915.3
35°	784.4
37.5°	653.7
40°	529.5
42.5°	413.0
45°	308.8
47.5°	215.1
50°	146.3
52.5°	100.9
55°	69.4
57.5°	46.8
60°	31.7
62.5°	22.0
65°	14.8
67.5°	7.5
70°	5.0
72.5°	4.8
75°	4.2
77.5°	2.8
80°	1.9
82.5°	1.4
85°	0.9
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)