

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: P780637

Luminaire Tested: LER4D25D010-EC4DR6520359030-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780637
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-EC4DR6520359030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2197.8 lumens
Efficiency: N/A
Efficacy: 87.6 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



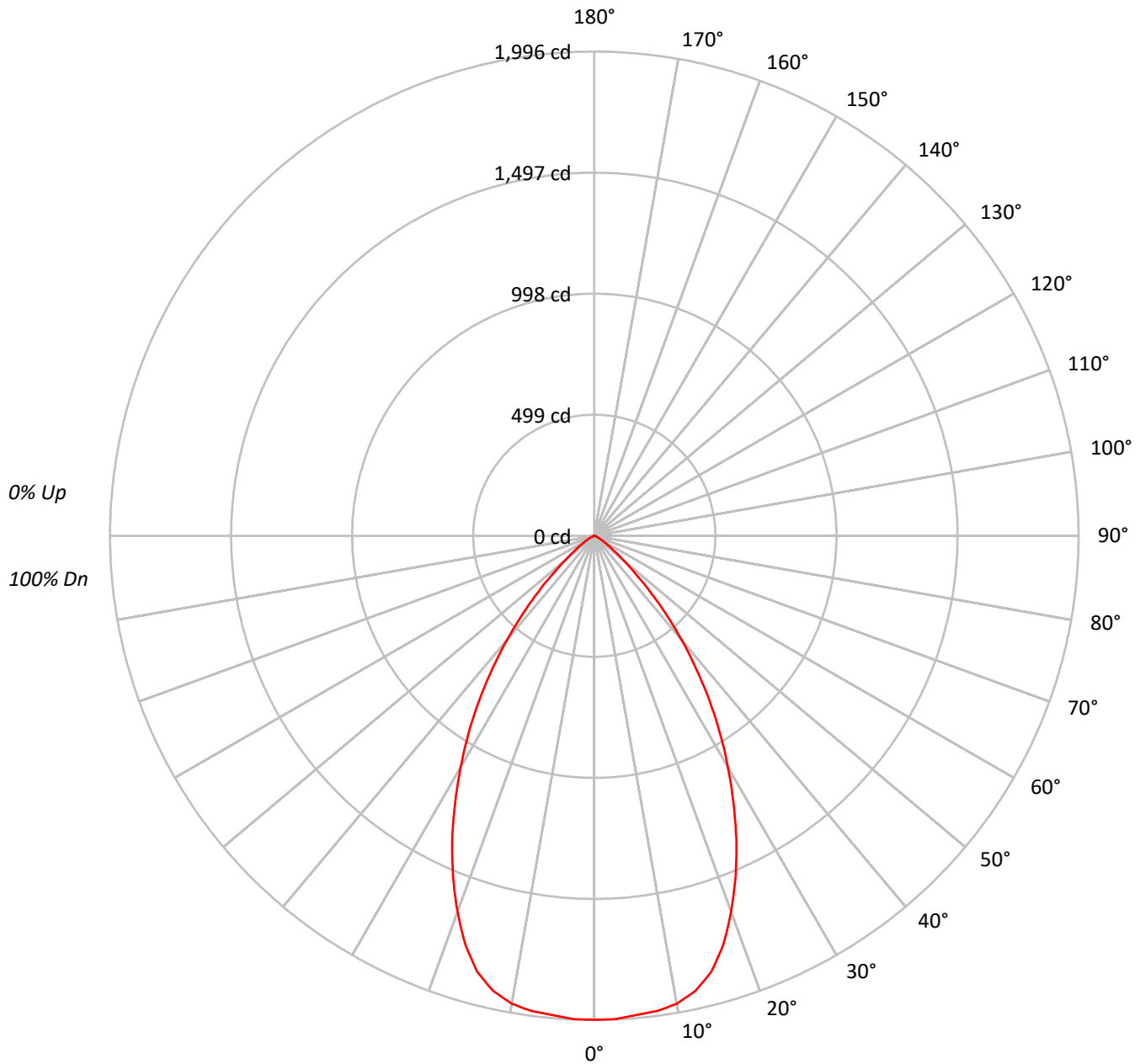
Downlight



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93		
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85		
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78		
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61		
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52		
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49		
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116545
5°	116251
10°	116154
15°	112578
20°	102489
25°	89310
30°	74277
35°	58856
40°	42481
45°	26835
50°	13992
55°	7433
60°	3901
65°	2142
70°	905
75°	993
80°	706
85°	603

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26835 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.7	8.6
10°-20°	516.8	23.5
20°-30°	631.7	28.7
30°-40°	512.5	23.3
40°-50°	255.4	11.6
50°-60°	71.3	3.2
60°-70°	16.2	0.7
70°-80°	4.2	0.2
80°-90°	1.1	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°	1337.2	60.8
0°-40°	1849.7	84.2
0°-60°	2176.3	99.0
0°-90°	2197.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2197.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1996	
5°	1983	189
15°	1862	517
25°	1386	632
35°	826	513
45°	325	255
55°	73	71
65°	16	16
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1995.5
2.5°	1994.1
5°	1982.9
7.5°	1976.5
10°	1958.6
12.5°	1922.2
15°	1861.9
17.5°	1767.4
20°	1649.0
22.5°	1521.1
25°	1385.9
27.5°	1241.3
30°	1101.4
32.5°	963.3
35°	825.5
37.5°	687.9
40°	557.2
42.5°	434.6
45°	324.9
47.5°	226.4
50°	154.0
52.5°	106.2
55°	73.0
57.5°	49.3
60°	33.4
62.5°	23.1
65°	15.5
67.5°	7.9
70°	5.3
72.5°	5.0
75°	4.4
77.5°	2.9
80°	2.1
82.5°	1.5
85°	0.9
87.5°	0.6
90°	0.0



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— 0°-180°







(END OF REPORT)