

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: P780621

Luminaire Tested: LER4D25D010-EC4DR6020359040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D25D010-EC4DR6020359040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2728.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



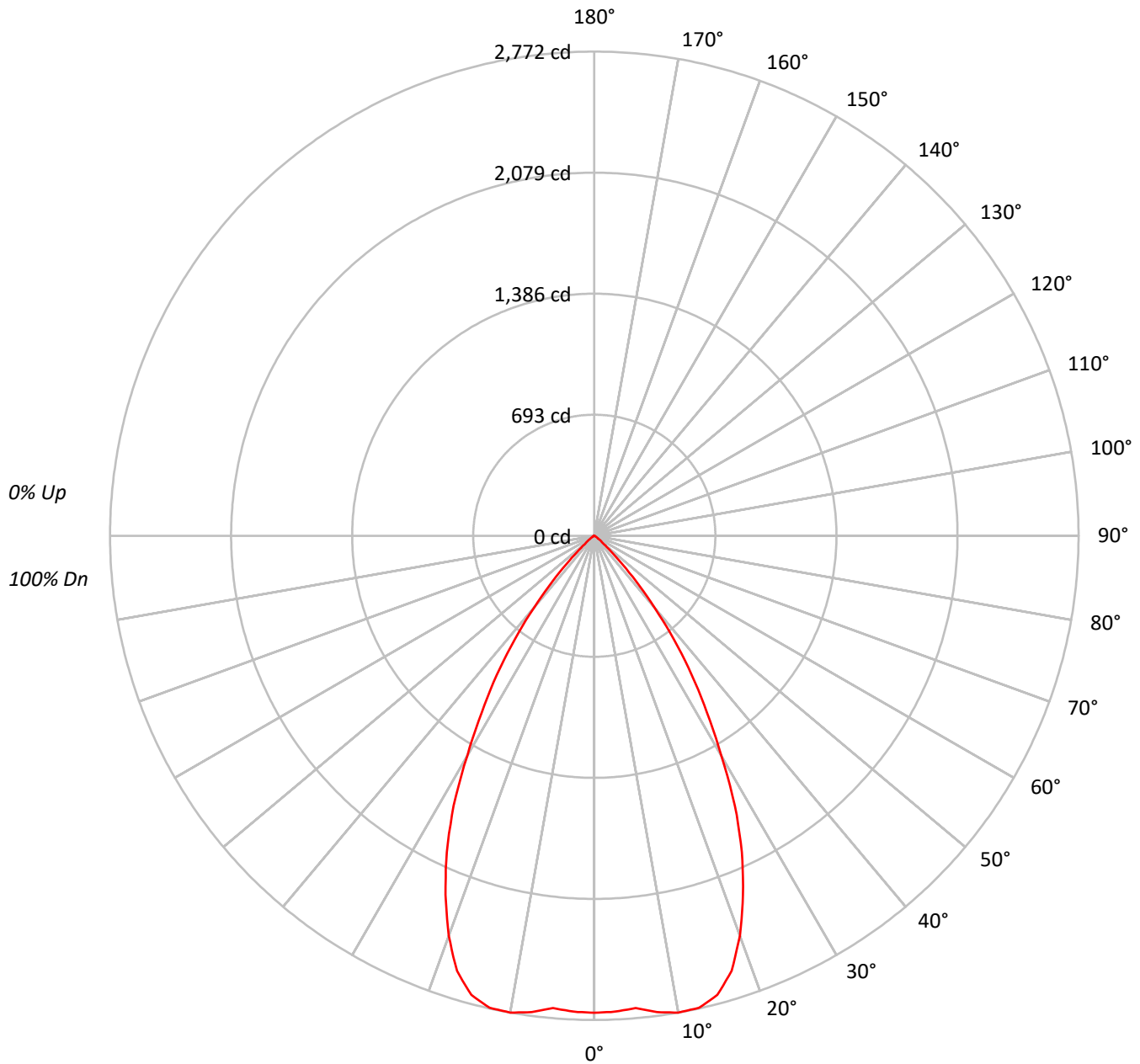
Downlight



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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				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						
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94						
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75						
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70						
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65						
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61						
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57						
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53						
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	298369
5°	297644
10°	307521
15°	307843
20°	283252
25°	240931
30°	183580
35°	129821
40°	76221
45°	30749
50°	10267
55°	4953
60°	2032
65°	284
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30749 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	9.6
10°-20°	754.0	27.6
20°-30°	902.4	33.1
30°-40°	603.6	22.1
40°-50°	178.9	6.6
50°-60°	25.7	0.9
60°-70°	2.4	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°	1918.1	70.3
0°-40°	2521.7	92.4
0°-60°	2726.4	99.9
0°-90°	2728.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2731	
5°	2714	262
15°	2722	754
25°	1998	902
35°	973	604
45°	199	179
55°	26	26
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2730.8
2.5°	2727.3
5°	2713.8
7.5°	2750.6
10°	2771.8
12.5°	2768.0
15°	2721.5
17.5°	2611.9
20°	2436.1
22.5°	2225.0
25°	1998.5
27.5°	1743.2
30°	1455.1
32.5°	1197.9
35°	973.3
37.5°	748.3
40°	534.4
42.5°	352.4
45°	199.0
47.5°	101.9
50°	60.4
52.5°	39.1
55°	26.0
57.5°	16.7
60°	9.3
62.5°	3.9
65°	1.1
67.5°	0.4
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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— 0°-180°







(END OF REPORT)