

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: P785281

Luminaire Tested: LER4DD50D010-EC4DR6040509050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR6040509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5170.3 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

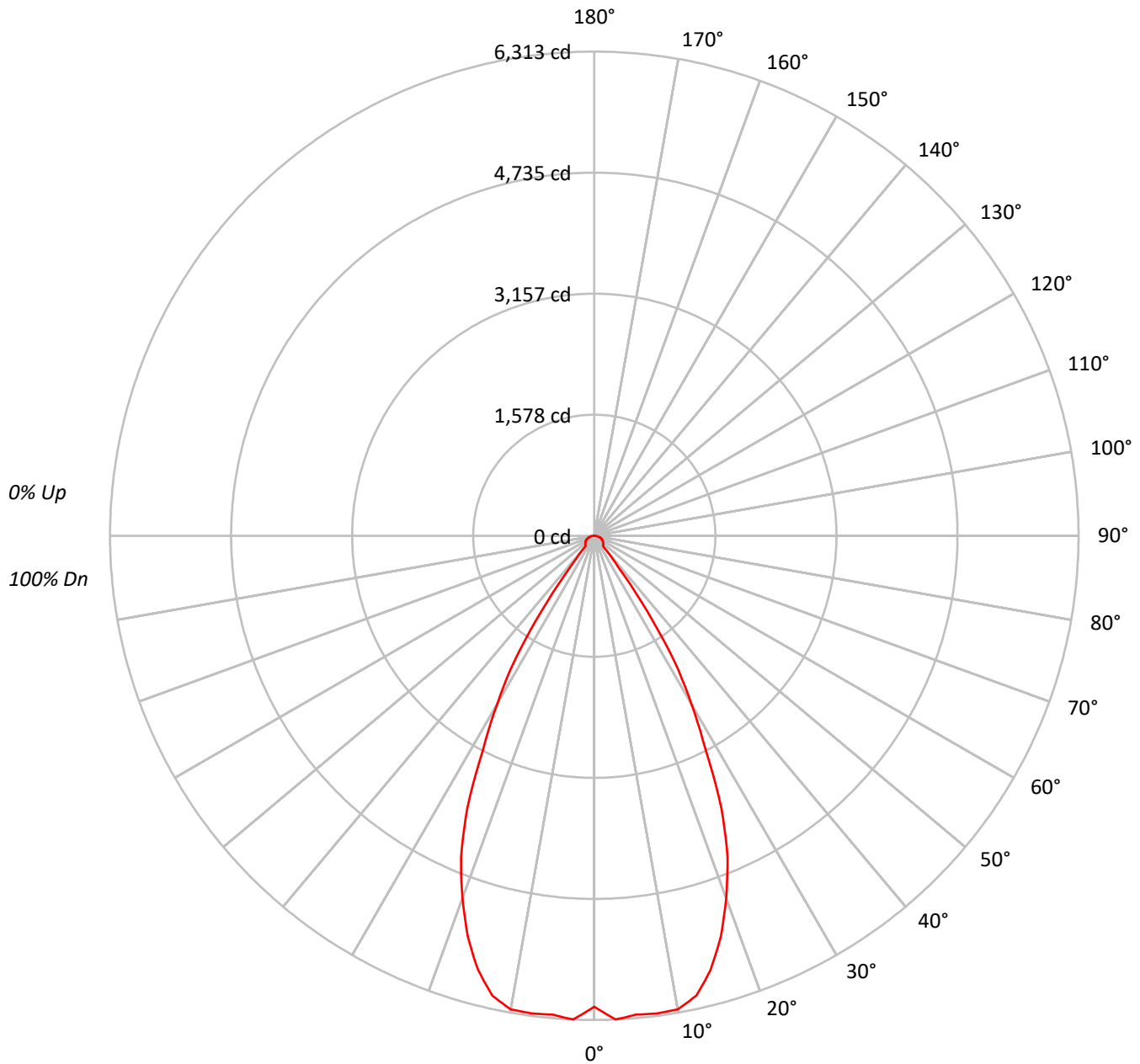


Downlight

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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	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	670905
5°	687397
10°	695700
15°	662752
20°	584341
25°	472627
30°	319698
35°	160206
40°	25987
45°	25434
50°	25939
55°	26326
60°	27075
65°	27689
70°	28336
75°	28664
80°	27685
85°	23067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 28664 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.0	11.6
10°-20°	1620.7	31.3
20°-30°	1743.7	33.7
30°-40°	757.9	14.7
40°-50°	127.3	2.5
50°-60°	123.8	2.4
60°-70°	105.9	2.0
70°-80°	70.8	1.4
80°-90°	21.2	0.4
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°	3963.3	76.7
0°-40°	4721.3	91.3
0°-60°	4972.4	96.2
0°-90°	5170.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5170.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6140	
5°	6267	599
15°	5859	1621
25°	3920	1744
35°	1201	758
45°	165	127
55°	138	124
65°	107	106
75°	68	71
85°	18	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6140.4
2.5°	6313.0
5°	6267.4
7.5°	6281.8
10°	6270.6
12.5°	6141.2
15°	5859.1
17.5°	5480.3
20°	5025.6
22.5°	4538.9
25°	3920.4
27.5°	3135.7
30°	2534.0
32.5°	1953.0
35°	1201.1
37.5°	513.8
40°	182.2
42.5°	167.8
45°	164.6
47.5°	159.0
50°	152.6
52.5°	145.4
55°	138.2
57.5°	131.1
60°	123.9
62.5°	115.9
65°	107.1
67.5°	98.3
70°	88.7
72.5°	78.3
75°	67.9
77.5°	55.9
80°	44.0
82.5°	31.2
85°	18.4
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)