

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: P785305

Luminaire Tested: LER4DD50D010-EC4DR6540509050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR6540509050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4517.6 lumens
Efficiency: N/A
Efficacy: 96.1 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): 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

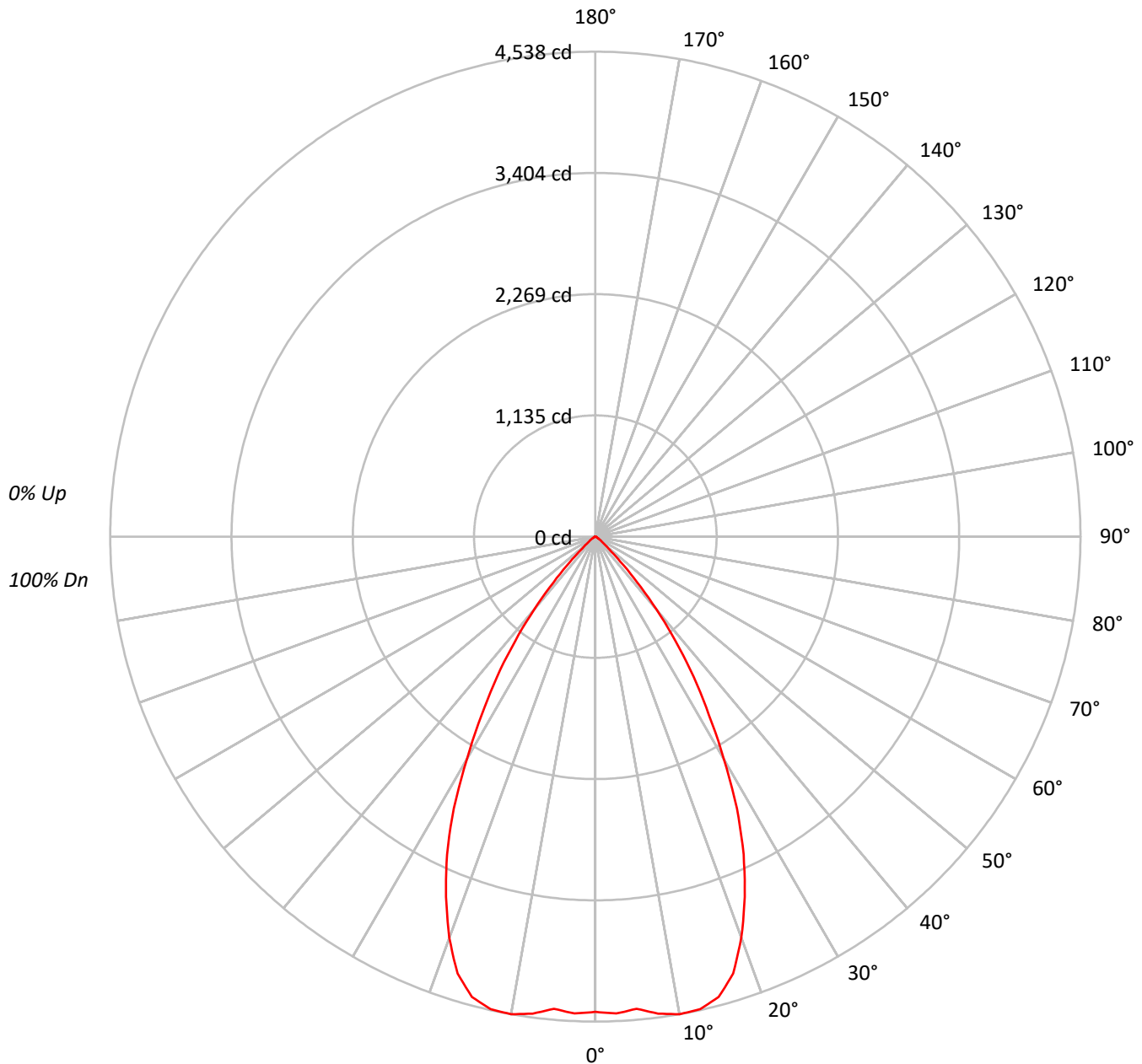


Downlight

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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	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	485981
5°	486390
10°	503507
15°	504346
20°	464336
25°	395628
30°	302868
35°	213973
40°	126299
45°	51269
50°	18579
55°	10363
60°	5944
65°	3258
70°	3418
75°	2660
80°	2769
85°	2382

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51269 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.3	9.5
10°-20°	1235.5	27.3
20°-30°	1482.3	32.8
30°-40°	996.1	22.0
40°-50°	298.2	6.6
50°-60°	52.6	1.2
60°-70°	15.0	0.3
70°-80°	7.3	0.2
80°-90°	2.3	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°	3146.0	69.6
0°-40°	4142.2	91.7
0°-60°	4493.0	99.5
0°-90°	4517.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4517.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4448	
5°	4435	428
15°	4459	1235
25°	3282	1482
35°	1604	996
45°	332	298
55°	54	53
65°	13	15
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4447.9
2.5°	4466.9
5°	4434.7
7.5°	4501.7
10°	4538.3
12.5°	4529.5
15°	4458.7
17.5°	4285.5
20°	3993.5
22.5°	3649.6
25°	3281.7
27.5°	2866.5
30°	2400.6
32.5°	1978.4
35°	1604.2
37.5°	1234.4
40°	885.5
42.5°	578.4
45°	331.8
47.5°	175.7
50°	109.3
52.5°	75.8
55°	54.4
57.5°	39.2
60°	27.2
62.5°	17.7
65°	12.6
67.5°	11.4
70°	10.7
72.5°	8.2
75°	6.3
77.5°	5.7
80°	4.4
82.5°	3.2
85°	1.9
87.5°	1.3
90°	0.0



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— 0°-180°







(END OF REPORT)