

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: P785293

Luminaire Tested: LER4DD50D010-EC4DR6540509030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785293
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-EC4DR6540509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 4240.6 lumens
Efficiency: N/A
Efficacy: 90.2 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

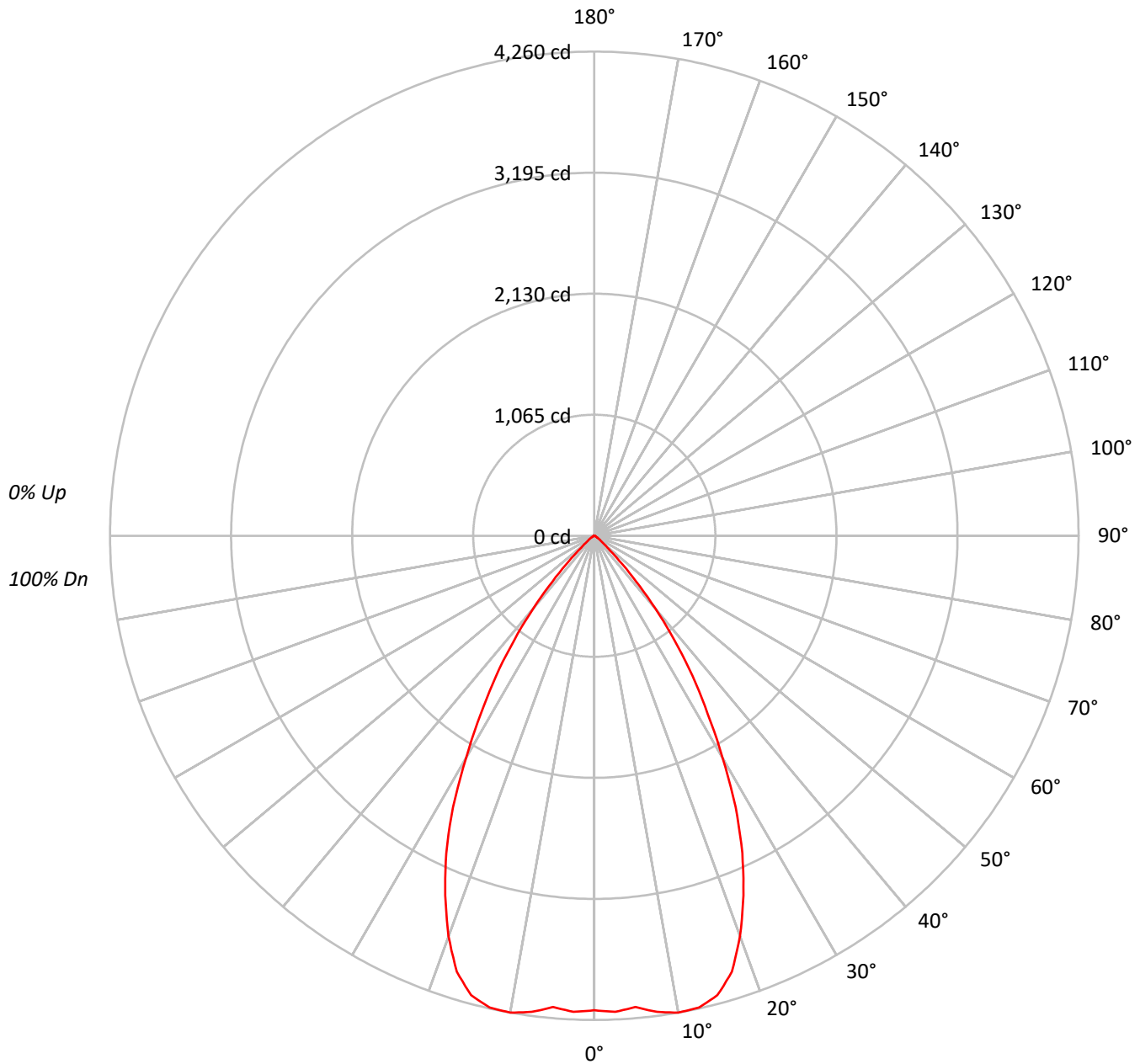


Downlight

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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°	456186
5°	456557
10°	472631
15°	473409
20°	435860
25°	371372
30°	284297
35°	200848
40°	118554
45°	48132
50°	17440
55°	9715
60°	5572
65°	3077
70°	3227
75°	2491
80°	2643
85°	2257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48132 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.0	9.5
10°-20°	1159.7	27.3
20°-30°	1391.4	32.8
30°-40°	935.0	22.0
40°-50°	279.9	6.6
50°-60°	49.4	1.2
60°-70°	14.1	0.3
70°-80°	6.9	0.2
80°-90°	2.2	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°	2953.1	69.6
0°-40°	3888.2	91.7
0°-60°	4217.5	99.5
0°-90°	4240.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4175	
5°	4163	402
15°	4185	1160
25°	3080	1391
35°	1506	935
45°	312	280
55°	51	49
65°	12	14
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4175.2
2.5°	4193.0
5°	4162.7
7.5°	4225.6
10°	4260.0
12.5°	4251.7
15°	4185.2
17.5°	4022.7
20°	3748.6
22.5°	3425.8
25°	3080.5
27.5°	2690.7
30°	2253.4
32.5°	1857.1
35°	1505.8
37.5°	1158.7
40°	831.2
42.5°	542.9
45°	311.5
47.5°	164.9
50°	102.6
52.5°	71.2
55°	51.0
57.5°	36.8
60°	25.5
62.5°	16.6
65°	11.9
67.5°	10.7
70°	10.1
72.5°	7.7
75°	5.9
77.5°	5.3
80°	4.2
82.5°	3.0
85°	1.8
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)