

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: P784827

Luminaire Tested: LER4DD40BD010-EC4DR6540509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784827
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: LER4DD40BD010-EC4DR6540509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3029.9 lumens
Efficiency: N/A
Efficacy: 86.1 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): 35.2
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

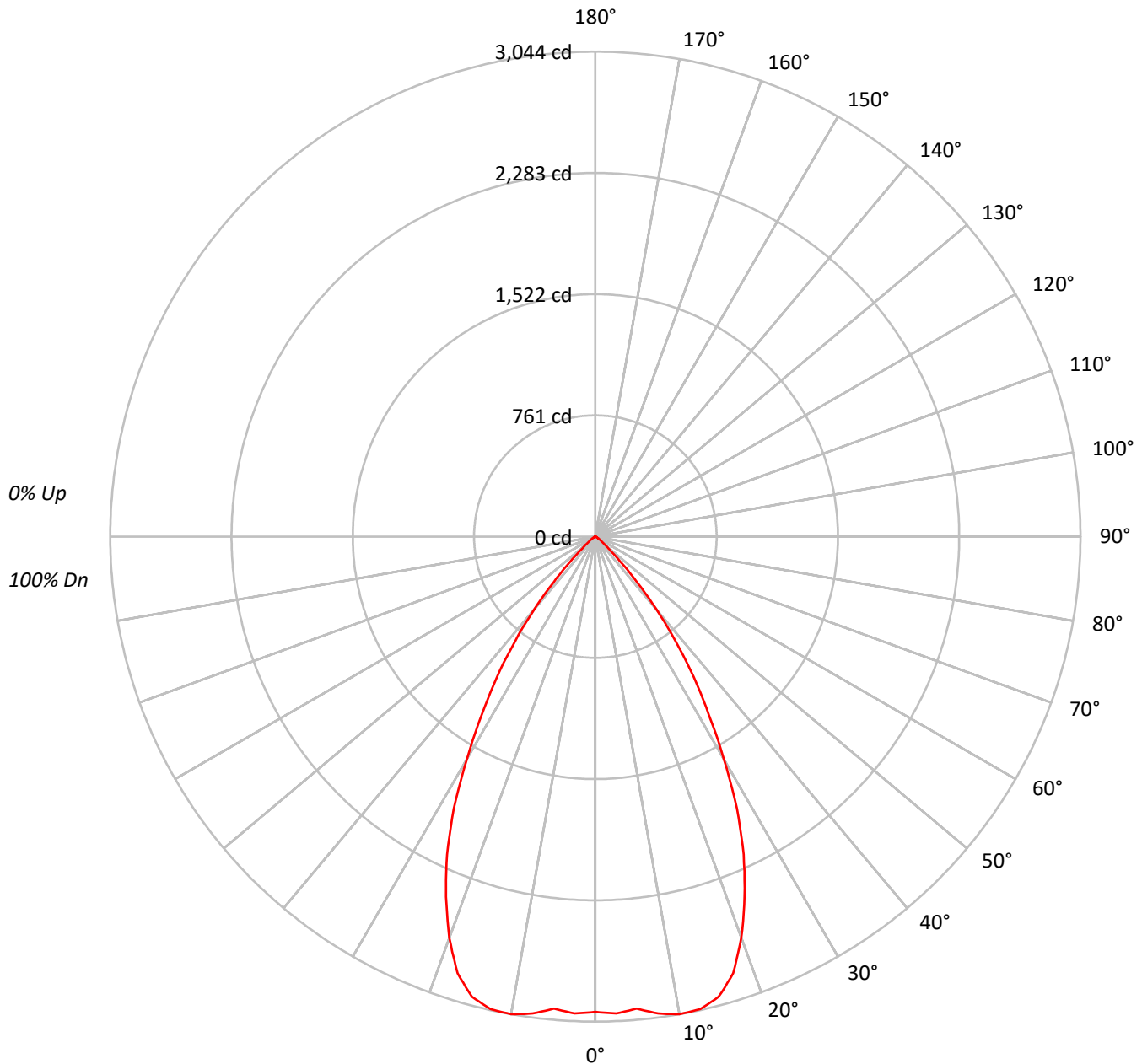


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	111	108	106		111	108	106	104		104	103	101		101	99	98		97	96	95
2	108	103	99	95		106	101	97	94		98	95	92		95	92	90		92	90	88
3	102	96	91	87		100	94	90	86		92	88	85		89	86	83		87	84	82
4	97	89	84	79		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	83	78	73		90	83	77	73		81	76	72		79	75	72		77	74	71
6	87	78	72	68		86	77	72	68		76	71	67		74	70	67		73	69	66
7	83	73	67	63		81	73	67	63		71	66	62		70	66	62		69	65	62
8	79	69	63	59		77	68	63	59		67	62	58		66	62	58		65	61	58
9	75	65	59	55		74	65	59	55		64	58	55		63	58	55		62	58	54
10	71	61	56	52		70	61	55	52		60	55	51		59	55	51		59	54	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	325947
5°	326216
10°	337698
15°	338259
20°	311425
25°	265344
30°	203136
35°	143507
40°	84708
45°	34396
50°	12460
55°	6953
60°	3977
65°	2198
70°	2300
75°	1773
80°	1888
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 34396 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.3	9.5
10°-20°	828.6	27.3
20°-30°	994.2	32.8
30°-40°	668.1	22.1
40°-50°	200.0	6.6
50°-60°	35.3	1.2
60°-70°	10.0	0.3
70°-80°	4.9	0.2
80°-90°	1.6	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°	2110.0	69.6
0°-40°	2778.1	91.7
0°-60°	3013.4	99.5
0°-90°	3029.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2983	
5°	2974	287
15°	2990	829
25°	2201	994
35°	1076	668
45°	223	200
55°	36	35
65°	8	10
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2983.2
2.5°	2995.9
5°	2974.3
7.5°	3019.2
10°	3043.8
12.5°	3037.8
15°	2990.4
17.5°	2874.2
20°	2678.4
22.5°	2447.7
25°	2201.0
27.5°	1922.5
30°	1610.1
32.5°	1326.9
35°	1075.9
37.5°	827.9
40°	593.9
42.5°	387.9
45°	222.6
47.5°	117.9
50°	73.3
52.5°	50.9
55°	36.5
57.5°	26.3
60°	18.2
62.5°	11.9
65°	8.5
67.5°	7.6
70°	7.2
72.5°	5.5
75°	4.2
77.5°	3.8
80°	3.0
82.5°	2.1
85°	1.3
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)