

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: P785051

Luminaire Tested: LER4DD45BD010-EC4DR6540509027-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785051
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: LER4DD45BD010-EC4DR6540509027-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3024.0 lumens
Efficiency: N/A
Efficacy: 78.1 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): 38.7
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

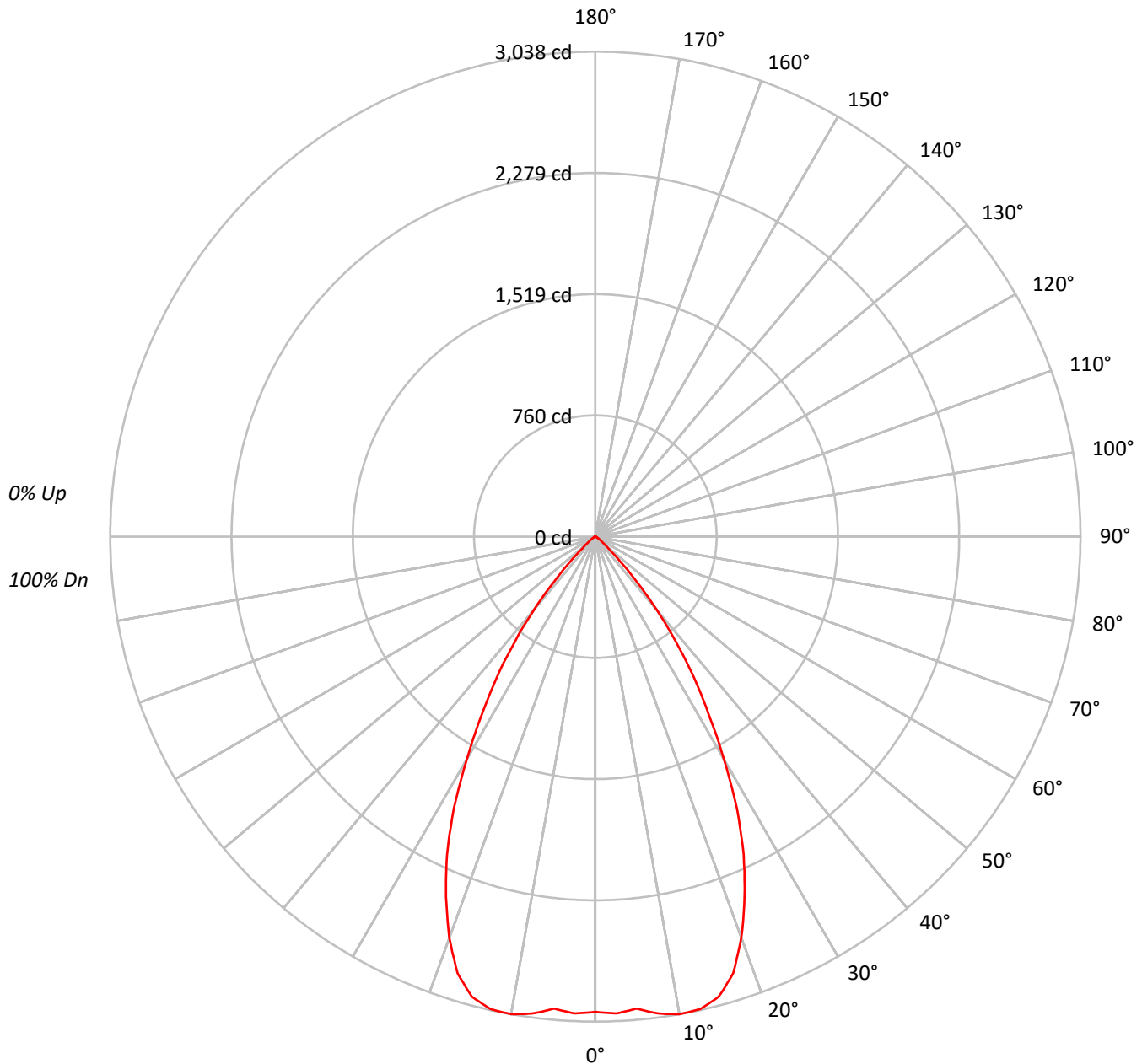


Downlight

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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°	325302
5°	325579
10°	337044
15°	337592
20°	310809
25°	264825
30°	202732
35°	143226
40°	84551
45°	34318
50°	12443
55°	6934
60°	3977
65°	2198
70°	2300
75°	1773
80°	1888
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 34318 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	9.5
10°-20°	827.0	27.3
20°-30°	992.2	32.8
30°-40°	666.8	22.1
40°-50°	199.6	6.6
50°-60°	35.2	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°	2105.9	69.6
0°-40°	2772.7	91.7
0°-60°	3007.5	99.5
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2977	
5°	2968	287
15°	2984	827
25°	2197	992
35°	1074	667
45°	222	200
55°	36	35
65°	8	10
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2977.3
2.5°	2990.0
5°	2968.5
7.5°	3013.3
10°	3037.9
12.5°	3031.9
15°	2984.5
17.5°	2868.6
20°	2673.1
22.5°	2443.0
25°	2196.7
27.5°	1918.8
30°	1606.9
32.5°	1324.3
35°	1073.8
37.5°	826.3
40°	592.8
42.5°	387.1
45°	222.1
47.5°	117.6
50°	73.2
52.5°	50.8
55°	36.4
57.5°	26.2
60°	18.2
62.5°	11.8
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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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180°







(END OF REPORT)