

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: P781639

Luminaire Tested: LER4D45BD010-EC4DR6540509024-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR6540509024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3094.8 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' 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

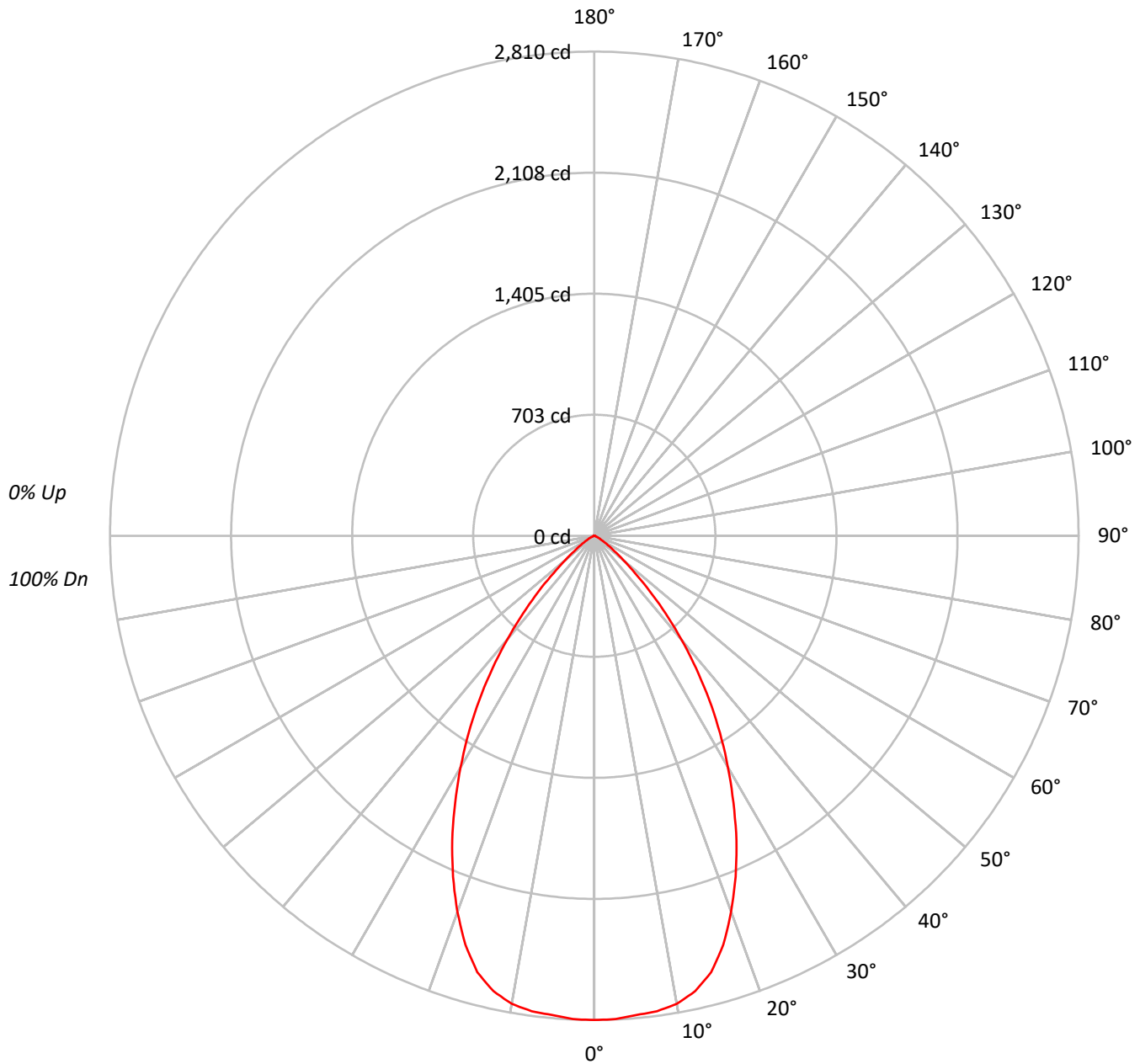


Downlight

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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	164115
5°	163698
10°	163563
15°	158519
20°	144311
25°	125758
30°	104598
35°	82877
40°	59819
45°	37787
50°	19699
55°	10468
60°	5502
65°	3026
70°	1264
75°	1399
80°	975
85°	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 37787 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.7	8.6
10°-20°	727.7	23.5
20°-30°	889.5	28.7
30°-40°	721.7	23.3
40°-50°	359.6	11.6
50°-60°	100.3	3.2
60°-70°	22.8	0.7
70°-80°	5.9	0.2
80°-90°	1.5	0.0
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°	1882.9	60.8
0°-40°	2604.6	84.2
0°-60°	3064.6	99.0
0°-90°	3094.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2810	
5°	2792	266
15°	2622	728
25°	1952	889
35°	1162	722
45°	458	360
55°	103	100
65°	22	23
75°	6	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2810.0
2.5°	2807.9
5°	2792.2
7.5°	2783.2
10°	2758.0
12.5°	2706.8
15°	2621.7
17.5°	2488.7
20°	2321.9
22.5°	2141.9
25°	1951.5
27.5°	1747.9
30°	1551.0
32.5°	1356.5
35°	1162.4
37.5°	968.7
40°	784.6
42.5°	612.0
45°	457.5
47.5°	318.8
50°	216.8
52.5°	149.5
55°	102.8
57.5°	69.4
60°	47.1
62.5°	32.6
65°	21.9
67.5°	11.1
70°	7.4
72.5°	7.0
75°	6.2
77.5°	4.1
80°	2.9
82.5°	2.1
85°	1.2
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)