

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: P781407

Luminaire Tested: LER4D40BD010-EC4DR6540509030-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781407
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: LER4D40BD010-EC4DR6540509030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3297.2 lumens
Efficiency: N/A
Efficacy: 93.7 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): 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

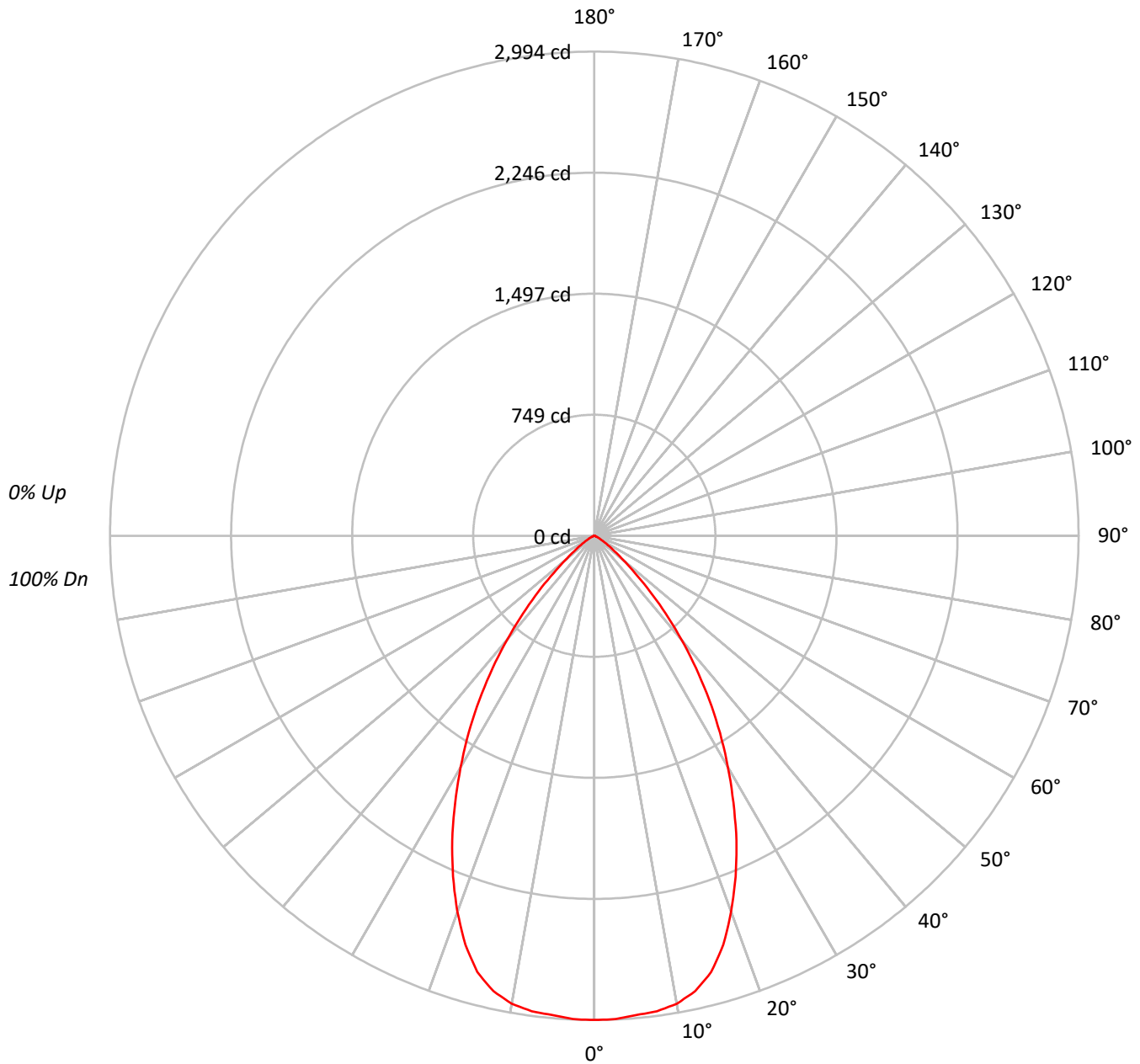


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	174844
5°	174403
10°	174255
15°	168882
20°	153746
25°	133980
30°	111436
35°	88295
40°	63730
45°	40257
50°	20989
55°	11150
60°	5864
65°	3220
70°	1349
75°	1489
80°	1043
85°	871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 40257 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	8.6
10°-20°	775.3	23.5
20°-30°	947.6	28.7
30°-40°	768.9	23.3
40°-50°	383.1	11.6
50°-60°	106.9	3.2
60°-70°	24.3	0.7
70°-80°	6.3	0.2
80°-90°	1.6	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°	2006.0	60.8
0°-40°	2774.9	84.2
0°-60°	3264.9	99.0
0°-90°	3297.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3297.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2994	
5°	2975	283
15°	2793	775
25°	2079	948
35°	1238	769
45°	487	383
55°	110	107
65°	23	24
75°	7	6
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2993.7
2.5°	2991.5
5°	2974.8
7.5°	2965.1
10°	2938.3
12.5°	2883.8
15°	2793.1
17.5°	2651.5
20°	2473.7
22.5°	2281.9
25°	2079.1
27.5°	1862.2
30°	1652.4
32.5°	1445.2
35°	1238.4
37.5°	1032.1
40°	835.9
42.5°	652.0
45°	487.4
47.5°	339.6
50°	231.0
52.5°	159.3
55°	109.5
57.5°	73.9
60°	50.2
62.5°	34.8
65°	23.3
67.5°	11.9
70°	7.9
72.5°	7.5
75°	6.6
77.5°	4.4
80°	3.1
82.5°	2.2
85°	1.3
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)