

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: P781396

Luminaire Tested: LER4D40BD010-EC4DR6540509024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781396
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-EC4DR6540509024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2760.6 lumens
Efficiency: N/A
Efficacy: 78.4 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

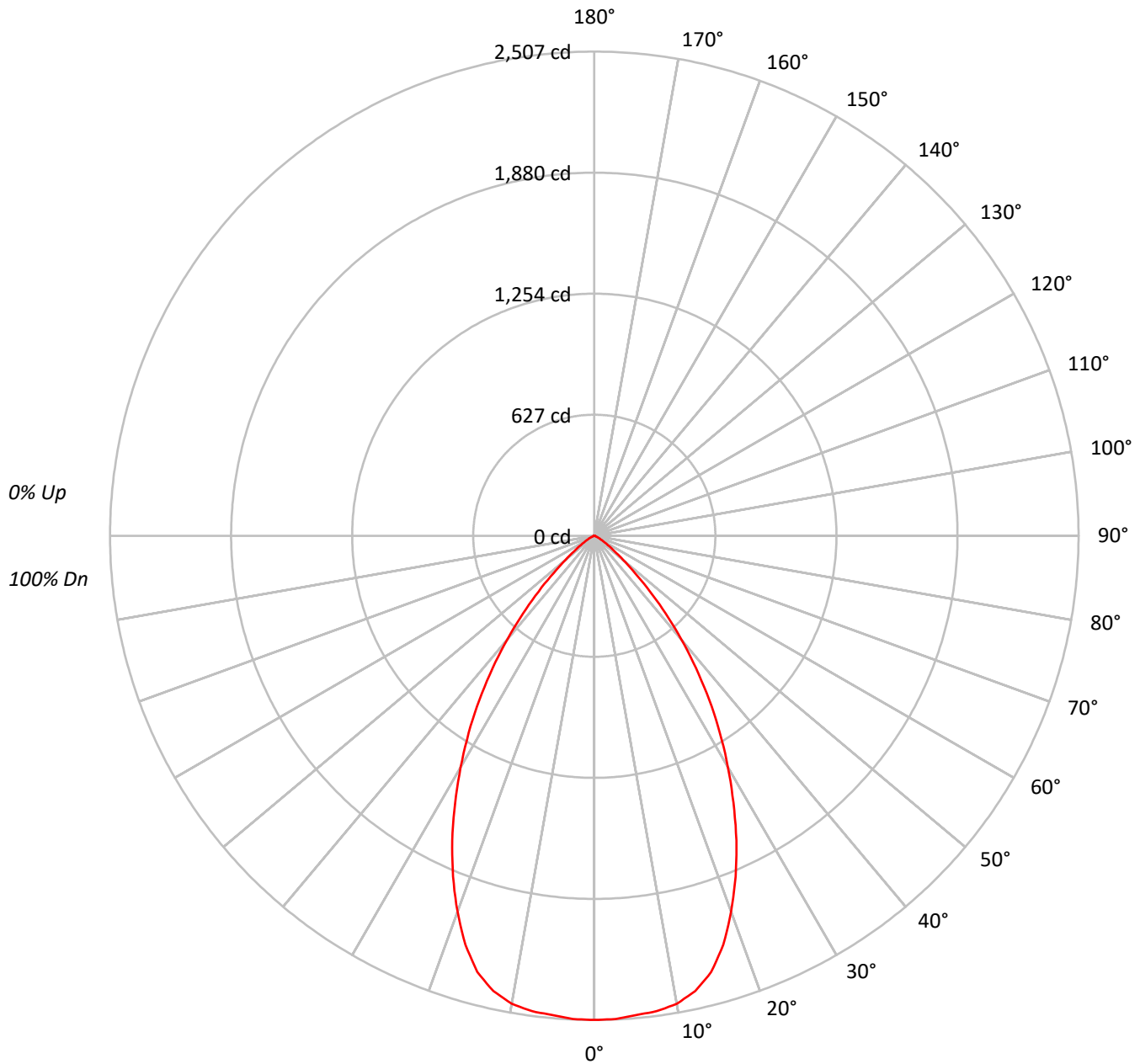


Downlight

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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°	146395
5°	146022
10°	145896
15°	141401
20°	128729
25°	112180
30°	93302
35°	73929
40°	53353
45°	33707
50°	17572
55°	9337
60°	4906
65°	2695
70°	1127
75°	1241
80°	874
85°	737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	8.6
10°-20°	649.1	23.5
20°-30°	793.4	28.7
30°-40°	643.8	23.3
40°-50°	320.8	11.6
50°-60°	89.5	3.2
60°-70°	20.3	0.7
70°-80°	5.3	0.2
80°-90°	1.3	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°	1679.6	60.8
0°-40°	2323.4	84.2
0°-60°	2733.6	99.0
0°-90°	2760.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2760.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2507	
5°	2491	237
15°	2339	649
25°	1741	793
35°	1037	644
45°	408	321
55°	92	89
65°	20	20
75°	6	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2506.6
2.5°	2504.7
5°	2490.7
7.5°	2482.6
10°	2460.1
12.5°	2414.5
15°	2338.6
17.5°	2220.0
20°	2071.2
22.5°	1910.6
25°	1740.8
27.5°	1559.2
30°	1383.5
32.5°	1210.0
35°	1036.9
37.5°	864.1
40°	699.8
42.5°	545.9
45°	408.1
47.5°	284.4
50°	193.4
52.5°	133.3
55°	91.7
57.5°	61.9
60°	42.0
62.5°	29.1
65°	19.5
67.5°	9.9
70°	6.6
72.5°	6.3
75°	5.5
77.5°	3.7
80°	2.6
82.5°	1.8
85°	1.1
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)