

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: P781176

Luminaire Tested: LER4D35BD010-EC4DR6520359050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781176
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: LER4D35BD010-EC4DR6520359050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2915.5 lumens
Efficiency: N/A
Efficacy: 94.7 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): 30.8
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

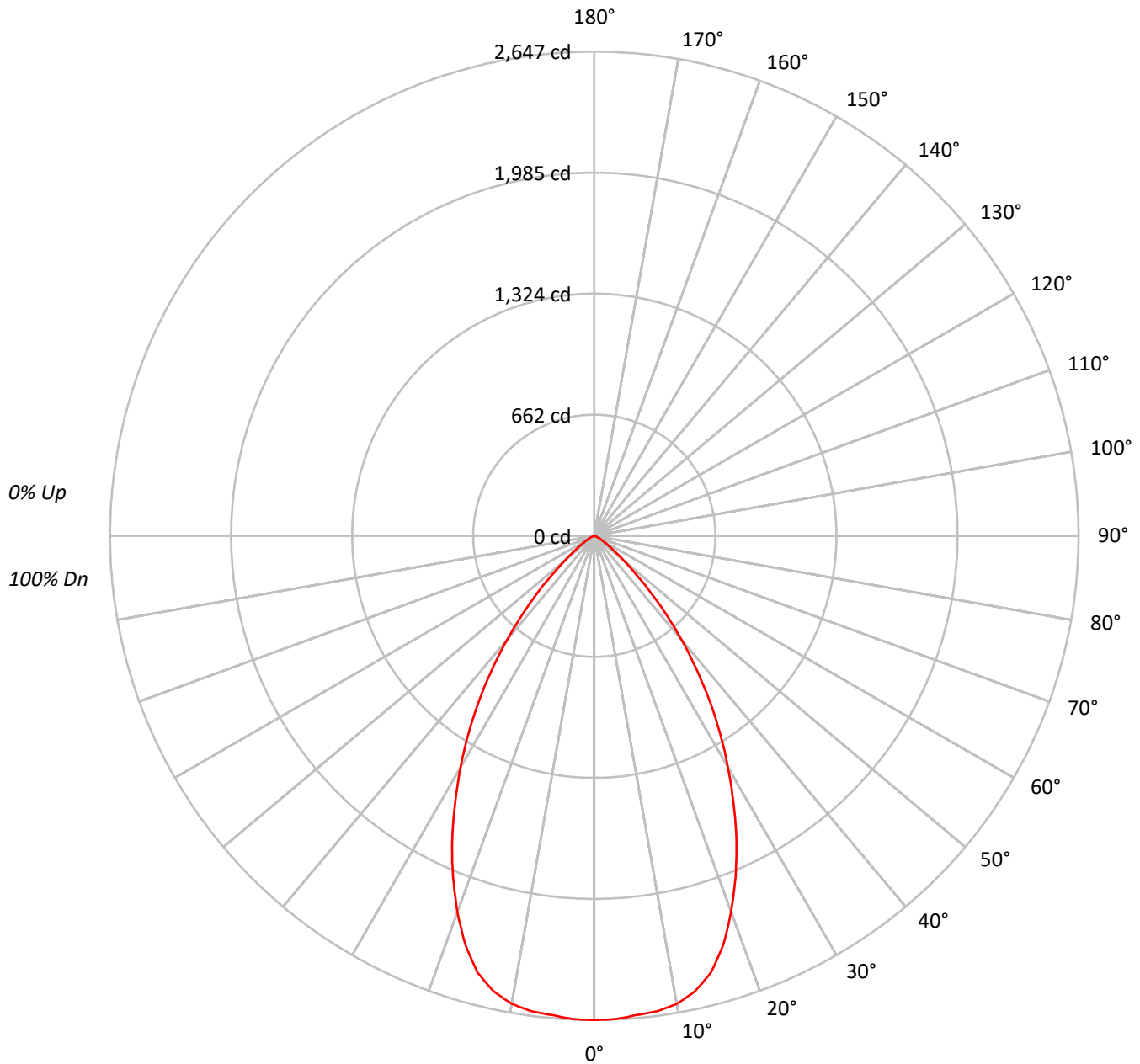


Downlight

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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°	154607
5°	154218
10°	154086
15°	149334
20°	135952
25°	118469
30°	98535
35°	78078
40°	56350
45°	35599
50°	18554
55°	9867
60°	5175
65°	2847
70°	1195
75°	1309
80°	908
85°	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 35599 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	8.6
10°-20°	685.5	23.5
20°-30°	837.9	28.7
30°-40°	679.9	23.3
40°-50°	338.8	11.6
50°-60°	94.5	3.2
60°-70°	21.5	0.7
70°-80°	5.6	0.2
80°-90°	1.4	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°	1773.8	60.8
0°-40°	2453.7	84.2
0°-60°	2887.0	99.0
0°-90°	2915.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2647	
5°	2630	250
15°	2470	686
25°	1838	838
35°	1095	680
45°	431	339
55°	97	95
65°	21	21
75°	6	6
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2647.2
2.5°	2645.2
5°	2630.5
7.5°	2621.9
10°	2598.2
12.5°	2549.9
15°	2469.8
17.5°	2344.5
20°	2187.4
22.5°	2017.8
25°	1838.4
27.5°	1646.7
30°	1461.1
32.5°	1277.9
35°	1095.1
37.5°	912.6
40°	739.1
42.5°	576.5
45°	431.0
47.5°	300.3
50°	204.2
52.5°	140.8
55°	96.9
57.5°	65.4
60°	44.3
62.5°	30.7
65°	20.6
67.5°	10.5
70°	7.0
72.5°	6.6
75°	5.8
77.5°	3.9
80°	2.7
82.5°	1.9
85°	1.2
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)