

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: P781168

Luminaire Tested: LER4D35BD010-EC4DR6520359035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781168
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-EC4DR6520359035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2765.6 lumens
Efficiency: N/A
Efficacy: 89.8 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

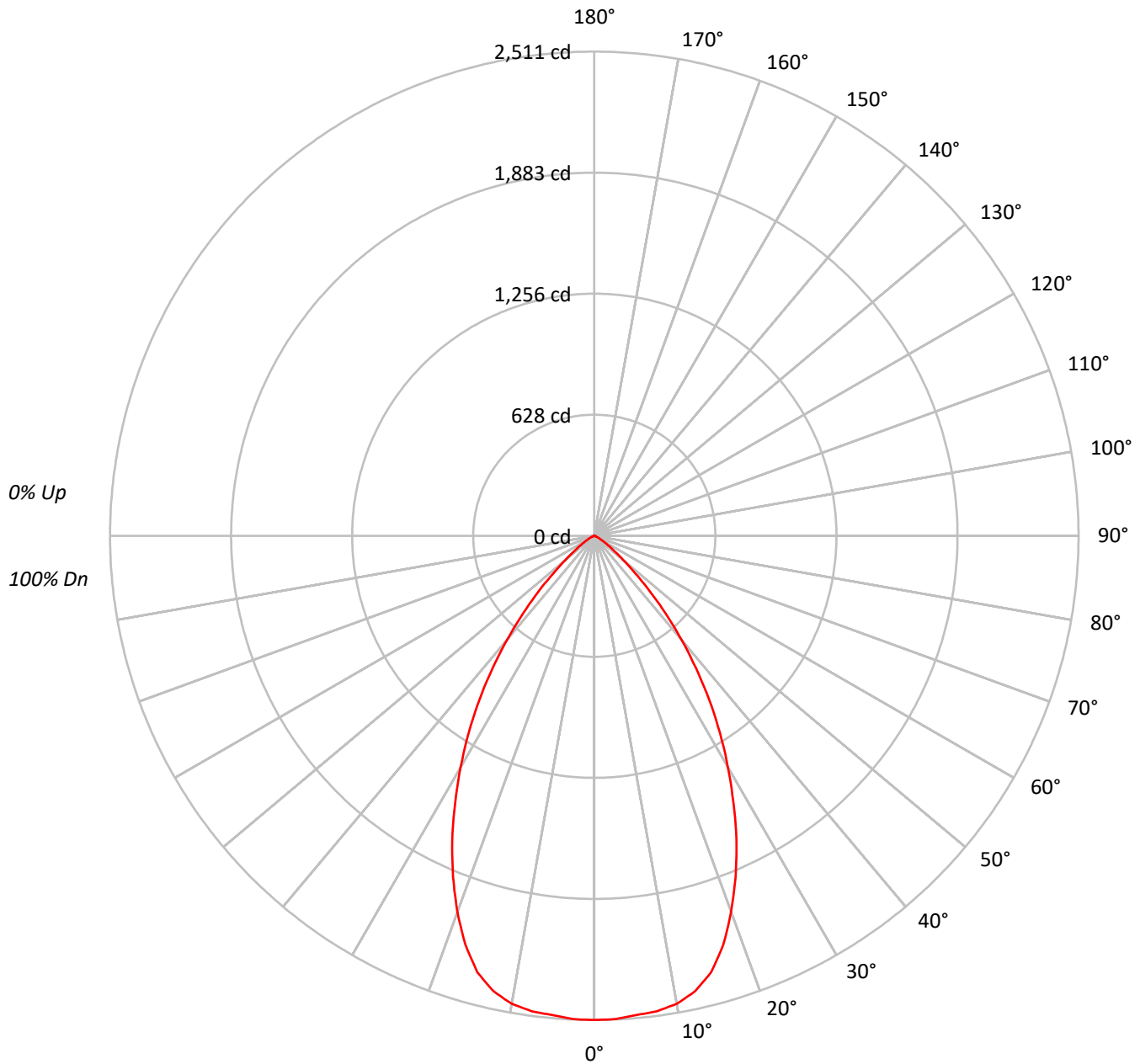


Downlight

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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°	146652
5°	146280
10°	146157
15°	141655
20°	128959
25°	112380
30°	93464
35°	74057
40°	53452
45°	33765
50°	17600
55°	9358
60°	4918
65°	2709
70°	1127
75°	1241
80°	874
85°	737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 33765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.5	8.6
10°-20°	650.3	23.5
20°-30°	794.9	28.7
30°-40°	644.9	23.3
40°-50°	321.4	11.6
50°-60°	89.7	3.2
60°-70°	20.4	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°	1682.6	60.8
0°-40°	2327.5	84.2
0°-60°	2738.5	99.0
0°-90°	2765.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2765.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2511	
5°	2495	237
15°	2343	650
25°	1744	795
35°	1039	645
45°	409	321
55°	92	90
65°	20	20
75°	6	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2511.0
2.5°	2509.2
5°	2495.1
7.5°	2487.0
10°	2464.5
12.5°	2418.8
15°	2342.8
17.5°	2223.9
20°	2074.9
22.5°	1914.0
25°	1743.9
27.5°	1562.0
30°	1385.9
32.5°	1212.2
35°	1038.7
37.5°	865.7
40°	701.1
42.5°	546.9
45°	408.8
47.5°	284.9
50°	193.7
52.5°	133.6
55°	91.9
57.5°	62.0
60°	42.1
62.5°	29.2
65°	19.6
67.5°	10.0
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)