

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: P781166

Luminaire Tested: LER4D35BD010-EC4DR6520359030-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781166
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-EC4DR6520359030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3094.9 lumens
Efficiency: N/A
Efficacy: 100.5 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

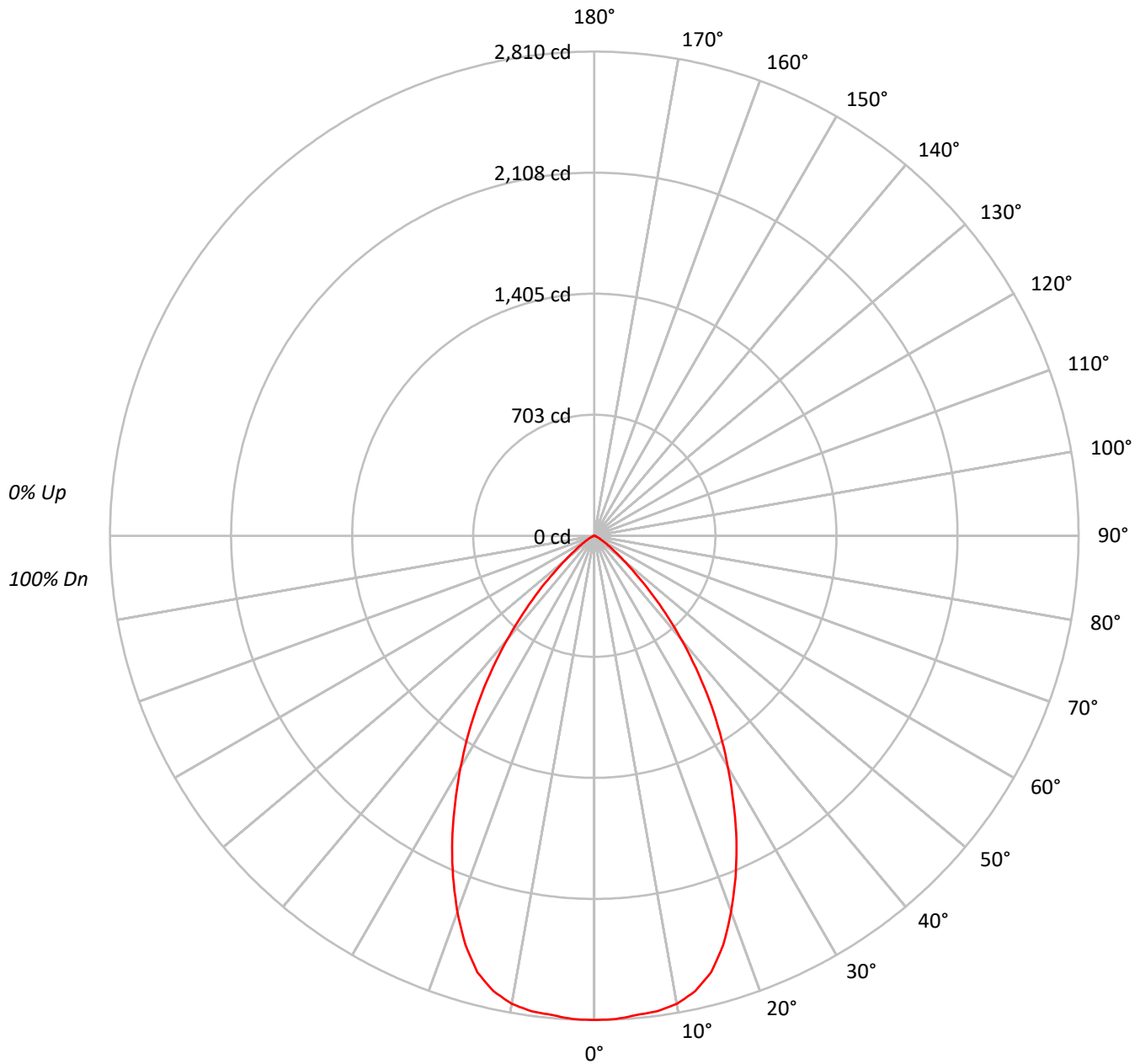


Downlight

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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	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°	164121
5°	163710
10°	163569
15°	158525
20°	144317
25°	125764
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°	1883.0	60.8
0°-40°	2604.7	84.2
0°-60°	3064.7	99.0
0°-90°	3094.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3094.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2810	
5°	2792	266
15°	2622	728
25°	1952	890
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°	2810.1
2.5°	2808.0
5°	2792.4
7.5°	2783.3
10°	2758.1
12.5°	2706.9
15°	2621.8
17.5°	2488.8
20°	2322.0
22.5°	2142.0
25°	1951.6
27.5°	1748.0
30°	1551.0
32.5°	1356.5
35°	1162.4
37.5°	968.8
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)