

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: P781649

Luminaire Tested: LER4D45BD010-EC4DR6540509035-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781649
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: LER4D45BD010-EC4DR6540509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3840.9 lumens
Efficiency: N/A
Efficacy: 99.2 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): 38.7
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

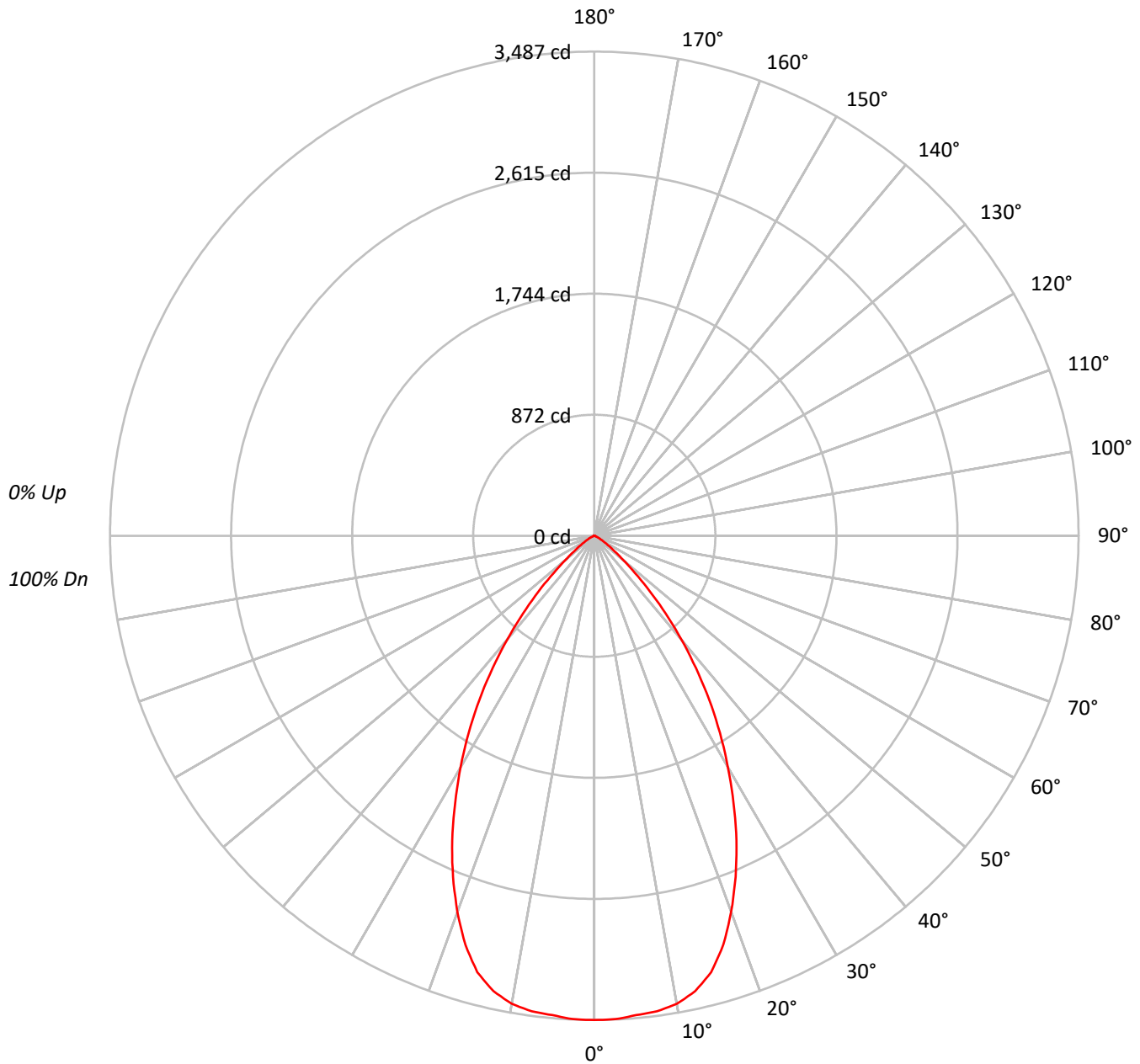


Downlight

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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°	203678
5°	203166
10°	202995
15°	196732
20°	179104
25°	156077
30°	129813
35°	102854
40°	74236
45°	46898
50°	24451
55°	12993
60°	6822
65°	3759
70°	1571
75°	1738
80°	1211
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 46898 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.8	8.6
10°-20°	903.1	23.5
20°-30°	1103.9	28.7
30°-40°	895.7	23.3
40°-50°	446.3	11.6
50°-60°	124.5	3.2
60°-70°	28.3	0.7
70°-80°	7.4	0.2
80°-90°	1.9	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°	2336.8	60.8
0°-40°	3232.5	84.2
0°-60°	3803.3	99.0
0°-90°	3840.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3840.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3487	
5°	3465	330
15°	3254	903
25°	2422	1104
35°	1443	896
45°	568	446
55°	128	124
65°	27	28
75°	8	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3487.4
2.5°	3484.9
5°	3465.4
7.5°	3454.1
10°	3422.9
12.5°	3359.3
15°	3253.7
17.5°	3088.7
20°	2881.7
22.5°	2658.2
25°	2422.0
27.5°	2169.3
30°	1924.9
32.5°	1683.5
35°	1442.6
37.5°	1202.3
40°	973.7
42.5°	759.5
45°	567.8
47.5°	395.6
50°	269.1
52.5°	185.5
55°	127.6
57.5°	86.1
60°	58.4
62.5°	40.5
65°	27.2
67.5°	13.8
70°	9.2
72.5°	8.7
75°	7.7
77.5°	5.1
80°	3.6
82.5°	2.6
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)