

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: P781653

Luminaire Tested: LER4D45BD010-EC4DR6540509040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781653
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-EC4DR6540509040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4020.5 lumens
Efficiency: N/A
Efficacy: 103.9 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

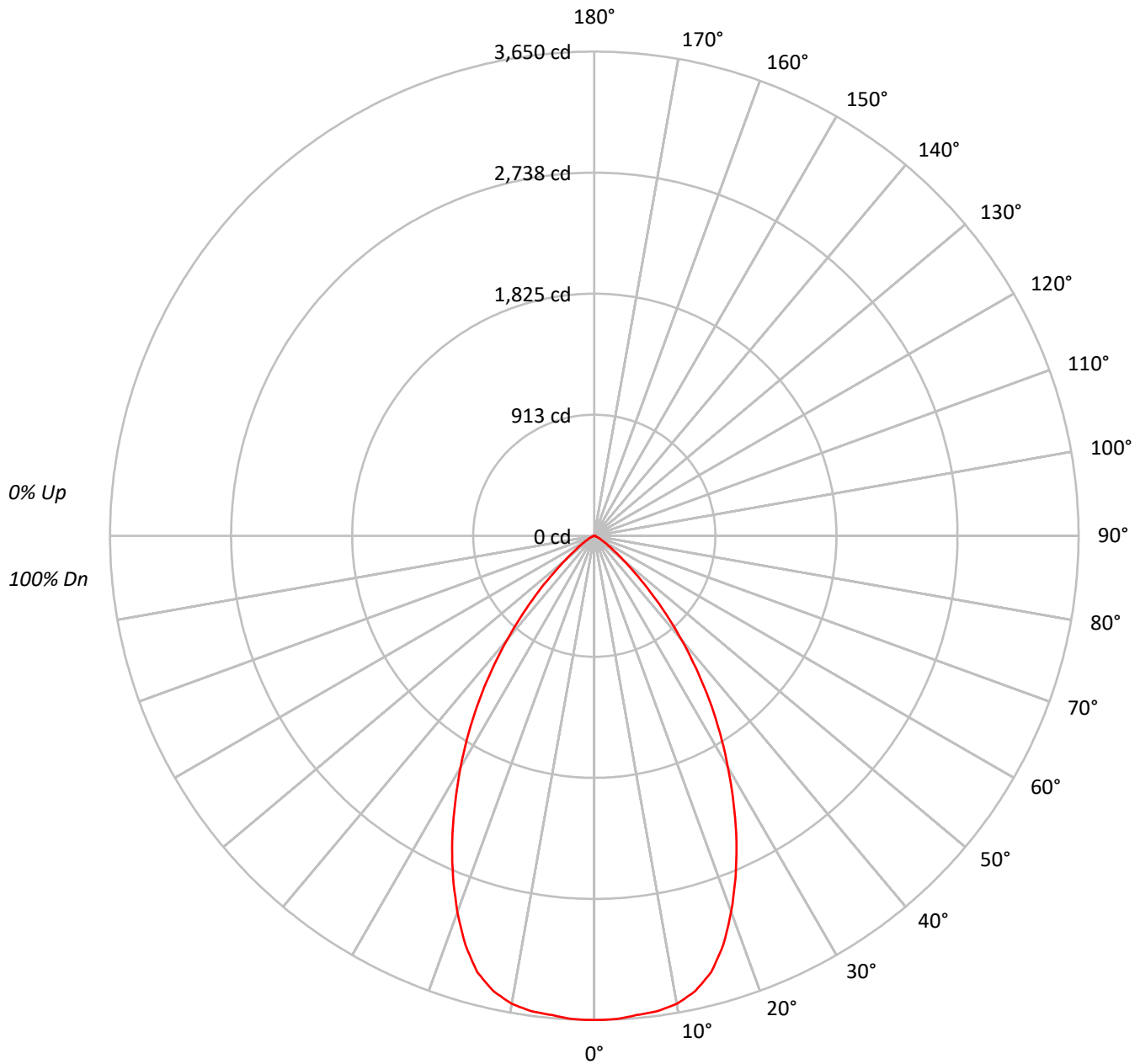


Downlight

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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°	213203
5°	212663
10°	212483
15°	205935
20°	187476
25°	163372
30°	135883
35°	107667
40°	77705
45°	49095
50°	25586
55°	13604
60°	7149
65°	3925
70°	1656
75°	1805
80°	1278
85°	1072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49095 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	8.6
10°-20°	945.3	23.5
20°-30°	1155.5	28.7
30°-40°	937.6	23.3
40°-50°	467.2	11.6
50°-60°	130.3	3.2
60°-70°	29.6	0.7
70°-80°	7.7	0.2
80°-90°	2.0	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°	2446.1	60.8
0°-40°	3383.7	84.2
0°-60°	3981.2	99.0
0°-90°	4020.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4020.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3650	
5°	3627	345
15°	3406	945
25°	2535	1156
35°	1510	938
45°	594	467
55°	134	130
65°	28	30
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3650.5
2.5°	3647.8
5°	3627.4
7.5°	3615.6
10°	3582.9
12.5°	3516.4
15°	3405.9
17.5°	3233.1
20°	3016.4
22.5°	2782.5
25°	2535.2
27.5°	2270.8
30°	2014.9
32.5°	1762.2
35°	1510.1
37.5°	1258.5
40°	1019.2
42.5°	795.0
45°	594.4
47.5°	414.1
50°	281.6
52.5°	194.2
55°	133.6
57.5°	90.1
60°	61.2
62.5°	42.4
65°	28.4
67.5°	14.5
70°	9.7
72.5°	9.1
75°	8.0
77.5°	5.4
80°	3.8
82.5°	2.7
85°	1.6
87.5°	1.1
90°	0.0



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— 0°-180°







(END OF REPORT)