

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: P781657

Luminaire Tested: LER4D45BD010-EC4DR6540509050-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781657
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-EC4DR6540509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4049.2 lumens
Efficiency: N/A
Efficacy: 104.6 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

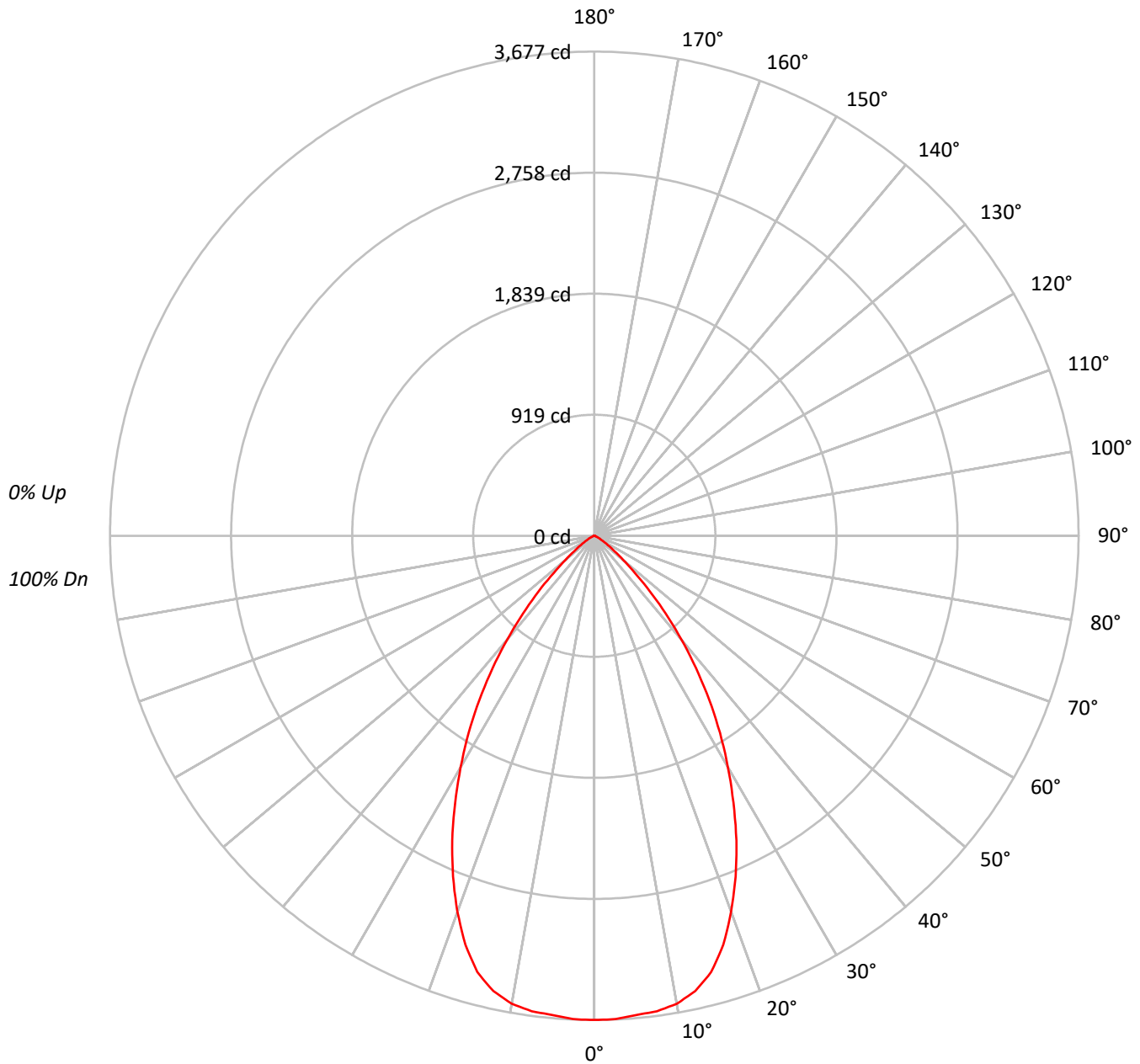


Downlight

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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°	214728
5°	214182
10°	214002
15°	207404
20°	188818
25°	164539
30°	136854
35°	108437
40°	78261
45°	49442
50°	25768
55°	13695
60°	7195
65°	3952
70°	1656
75°	1828
80°	1278
85°	1072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 49442 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.7	8.6
10°-20°	952.1	23.5
20°-30°	1163.8	28.7
30°-40°	944.3	23.3
40°-50°	470.5	11.6
50°-60°	131.2	3.2
60°-70°	29.8	0.7
70°-80°	7.8	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°	2463.6	60.8
0°-40°	3407.8	84.2
0°-60°	4009.6	99.0
0°-90°	4049.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4049.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3677	
5°	3653	348
15°	3430	952
25°	2553	1164
35°	1521	944
45°	599	471
55°	134	131
65°	29	30
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3676.6
2.5°	3673.9
5°	3653.3
7.5°	3641.4
10°	3608.5
12.5°	3541.5
15°	3430.2
17.5°	3256.2
20°	3038.0
22.5°	2802.4
25°	2553.3
27.5°	2287.0
30°	2029.3
32.5°	1774.8
35°	1520.9
37.5°	1267.5
40°	1026.5
42.5°	800.7
45°	598.6
47.5°	417.1
50°	283.6
52.5°	195.6
55°	134.5
57.5°	90.8
60°	61.6
62.5°	42.7
65°	28.6
67.5°	14.6
70°	9.7
72.5°	9.2
75°	8.1
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)