

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: P781656

Luminaire Tested: LER4D45BD010-EC4DR6540509050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781656
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-EC4DR6540509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3759.5 lumens
Efficiency: N/A
Efficacy: 97.1 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

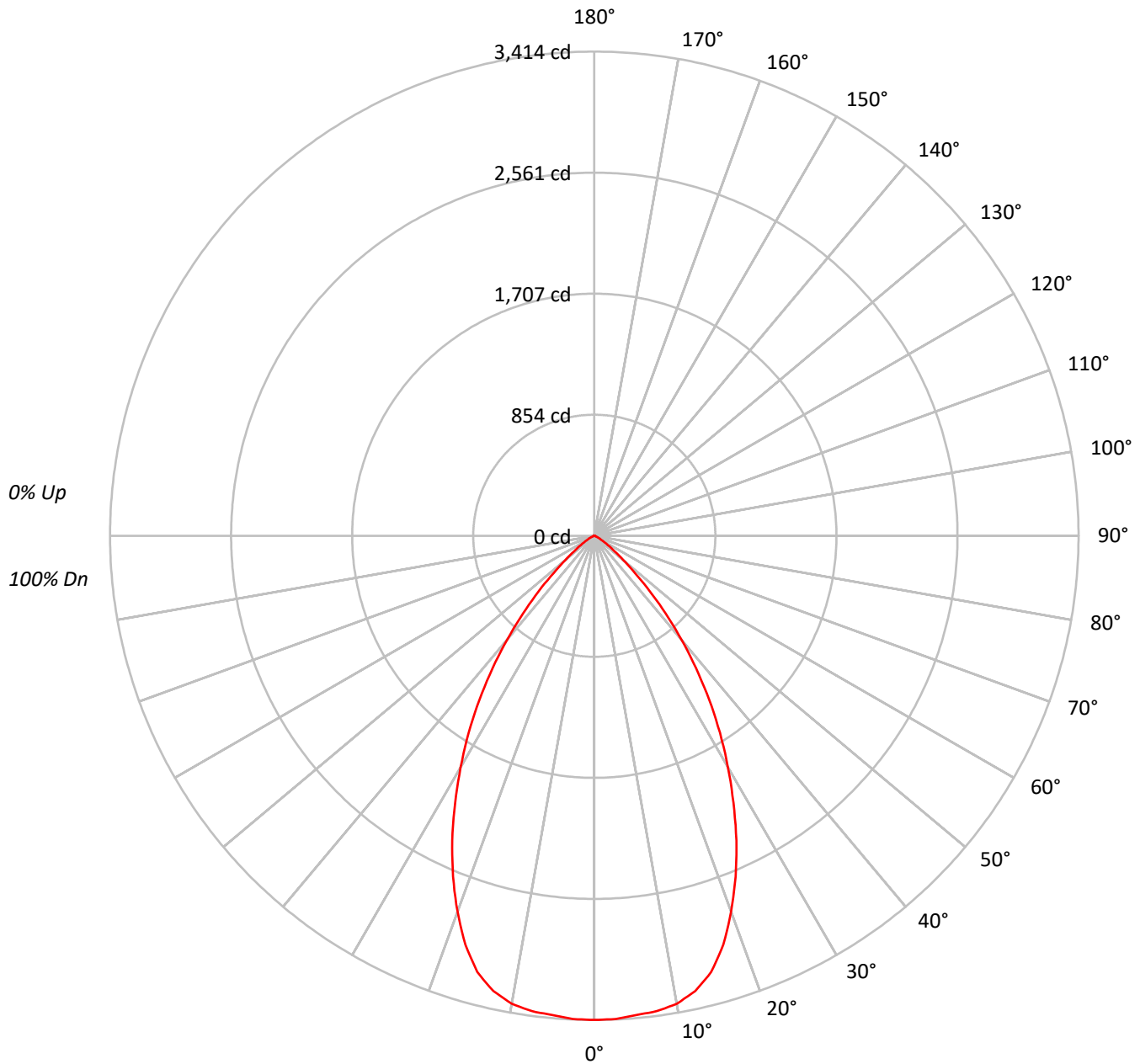


Downlight

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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	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°	199362
5°	198863
10°	198689
15°	192566
20°	175306
25°	152772
30°	127062
35°	100680
40°	72665
45°	45907
50°	23933
55°	12718
60°	6681
65°	3676
70°	1537
75°	1692
80°	1177
85°	1005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 45907 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	8.6
10°-20°	884.0	23.5
20°-30°	1080.5	28.7
30°-40°	876.7	23.3
40°-50°	436.9	11.6
50°-60°	121.9	3.2
60°-70°	27.7	0.7
70°-80°	7.2	0.2
80°-90°	1.8	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°	2287.3	60.8
0°-40°	3164.0	84.2
0°-60°	3722.8	99.0
0°-90°	3759.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3414	
5°	3392	323
15°	3185	884
25°	2371	1081
35°	1412	877
45°	556	437
55°	125	122
65°	27	28
75°	8	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3413.5
2.5°	3411.0
5°	3392.0
7.5°	3380.9
10°	3350.3
12.5°	3288.1
15°	3184.8
17.5°	3023.3
20°	2820.6
22.5°	2601.9
25°	2370.7
27.5°	2123.4
30°	1884.1
32.5°	1647.8
35°	1412.1
37.5°	1176.8
40°	953.1
42.5°	743.4
45°	555.8
47.5°	387.3
50°	263.4
52.5°	181.6
55°	124.9
57.5°	84.3
60°	57.2
62.5°	39.6
65°	26.6
67.5°	13.5
70°	9.0
72.5°	8.5
75°	7.5
77.5°	5.0
80°	3.5
82.5°	2.5
85°	1.5
87.5°	1.0
90°	0.0



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— 0°-180°







(END OF REPORT)