

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: P781588

Luminaire Tested: LER4D45BD010-EC4DR5540509024-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR5540509024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3567.1 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' 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

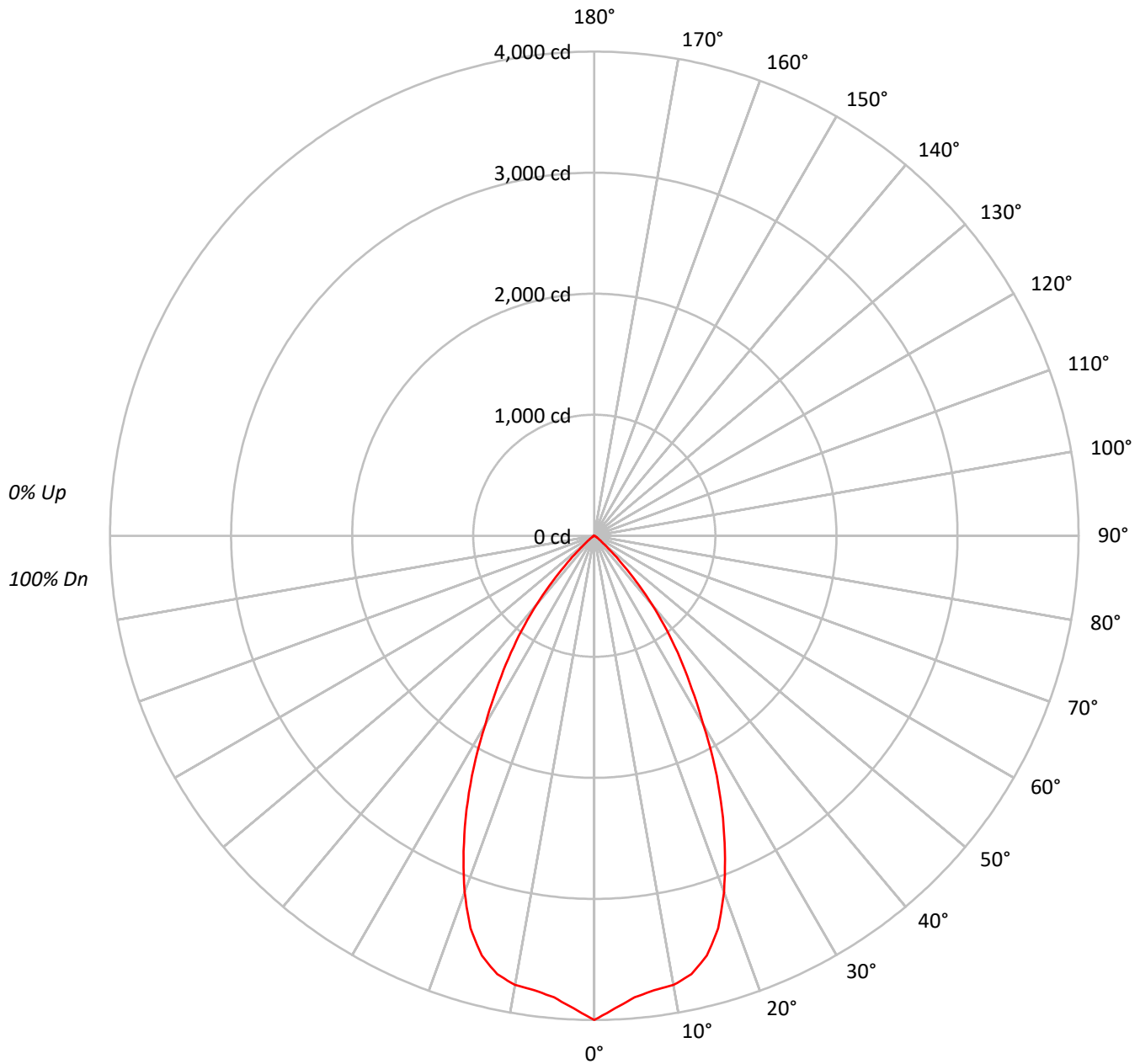


Downlight

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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	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62
10	72	62	56	52	71	61	56	52	61	56	52		60	55	52		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	437043
5°	419683
10°	418101
15°	406094
20°	364120
25°	300932
30°	227309
35°	164821
40°	105475
45°	48179
50°	15757
55°	6801
60°	2928
65°	388
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 48179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	10.2
10°-20°	993.7	27.9
20°-30°	1132.5	31.7
30°-40°	770.9	21.6
40°-50°	265.7	7.4
50°-60°	36.7	1.0
60°-70°	3.5	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	2490.3	69.8
0°-40°	3261.2	91.4
0°-60°	3563.6	99.9
0°-90°	3567.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3567.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4000	
5°	3826	364
15°	3590	994
25°	2496	1132
35°	1236	771
45°	312	266
55°	36	37
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4000.0
2.5°	3908.3
5°	3826.5
7.5°	3786.4
10°	3768.5
12.5°	3709.1
15°	3590.1
17.5°	3401.2
20°	3131.6
22.5°	2820.3
25°	2496.2
27.5°	2158.6
30°	1801.7
32.5°	1499.4
35°	1235.7
37.5°	984.9
40°	739.5
42.5°	512.5
45°	311.8
47.5°	168.0
50°	92.7
52.5°	55.0
55°	35.7
57.5°	22.8
60°	13.4
62.5°	5.9
65°	1.5
67.5°	0.5
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)