

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: P781536

Luminaire Tested: LER4D45BD010-EC4DR4040509050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR4040509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4530.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
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

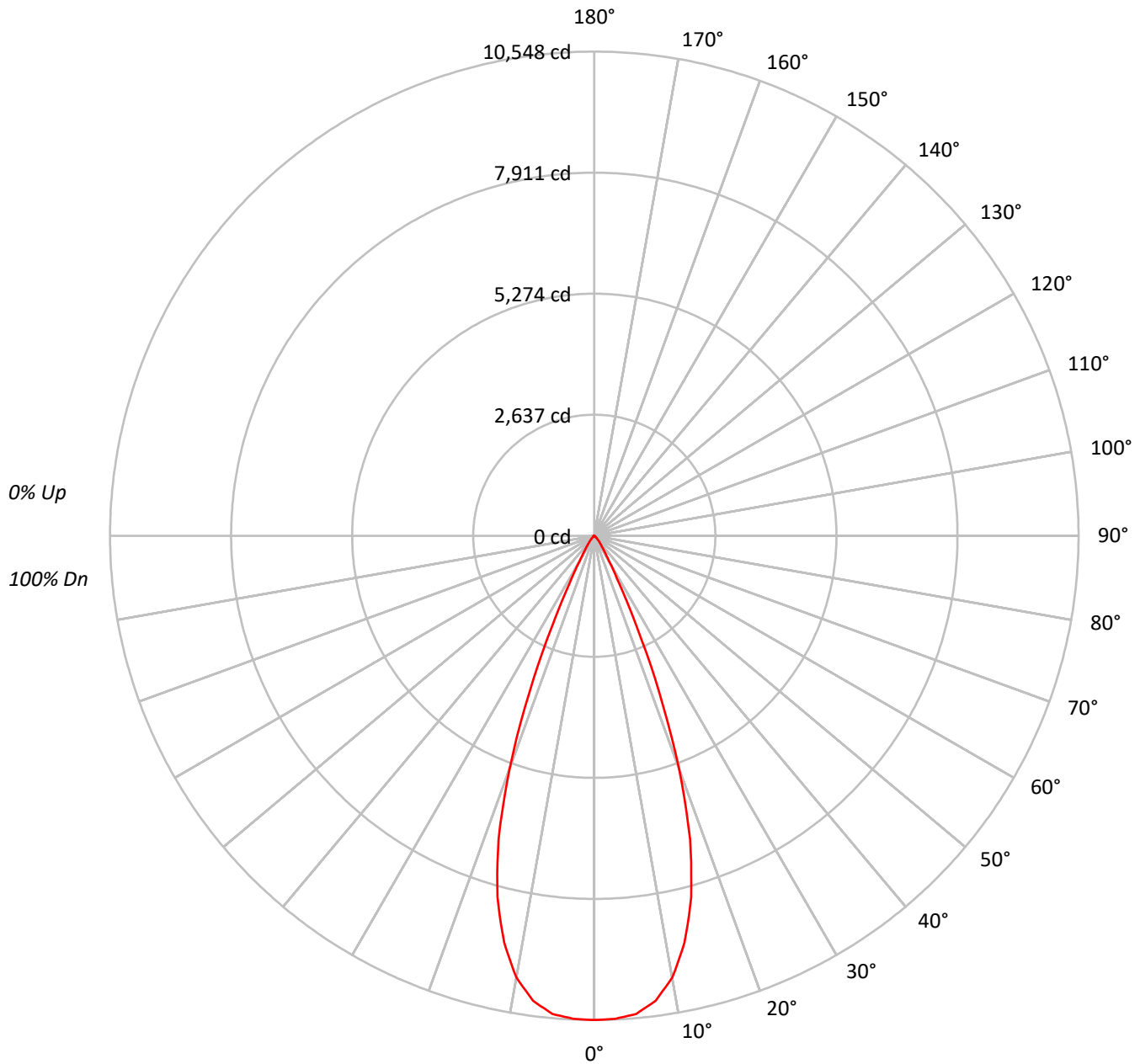


Downlight

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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	115	112	110	108	112	110	108	107	106	105	103		103	101	100		99
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96
3	106	101	97	94	104	100	96	93	97	94	92		95	93	90		93
4	102	97	92	89	101	95	91	88	93	90	87		92	89	86		90
5	99	92	88	84	97	91	87	84	90	86	83		88	85	83		87
6	95	88	84	80	94	88	83	80	86	82	80		85	82	79		84
7	92	85	80	77	91	84	80	77	83	79	76		82	79	76		81
8	89	82	77	74	88	81	77	74	80	76	73		79	76	73		78
9	86	79	74	71	85	78	74	71	77	73	71		76	73	70		76
10	83	76	71	68	82	75	71	68	75	71	68		74	70	68		73

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1152482
5°	1146882
10°	1084056
15°	921582
20°	628129
25°	262076
30°	82410
35°	38294
40°	21181
45°	9719
50°	4708
55°	2591
60°	1355
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9719 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.4	21.6
10°-20°	2187.4	48.3
20°-30°	1094.9	24.2
30°-40°	200.7	4.4
40°-50°	55.4	1.2
50°-60°	13.0	0.3
60°-70°	2.5	0.1
70°-80°	0.1	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°	4258.7	94.0
0°-40°	4459.5	98.4
0°-60°	4527.9	99.9
0°-90°	4530.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4530.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10548	
5°	10457	976
15°	8147	2187
25°	2174	1095
35°	287	201
45°	63	55
55°	14	13
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10548.0
2.5°	10532.6
5°	10456.8
7.5°	10215.2
10°	9771.0
12.5°	9078.4
15°	8147.3
17.5°	6936.5
20°	5402.2
22.5°	3683.0
25°	2173.9
27.5°	1149.2
30°	653.2
32.5°	422.1
35°	287.1
37.5°	205.2
40°	148.5
42.5°	101.7
45°	62.9
47.5°	40.1
50°	27.7
52.5°	19.7
55°	13.6
57.5°	8.6
60°	6.2
62.5°	3.7
65°	1.8
67.5°	1.2
70°	0.6
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)