

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: P781511

Luminaire Tested: LER4D45BD010-EC4DR3540509040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR3540509040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4166.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): 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

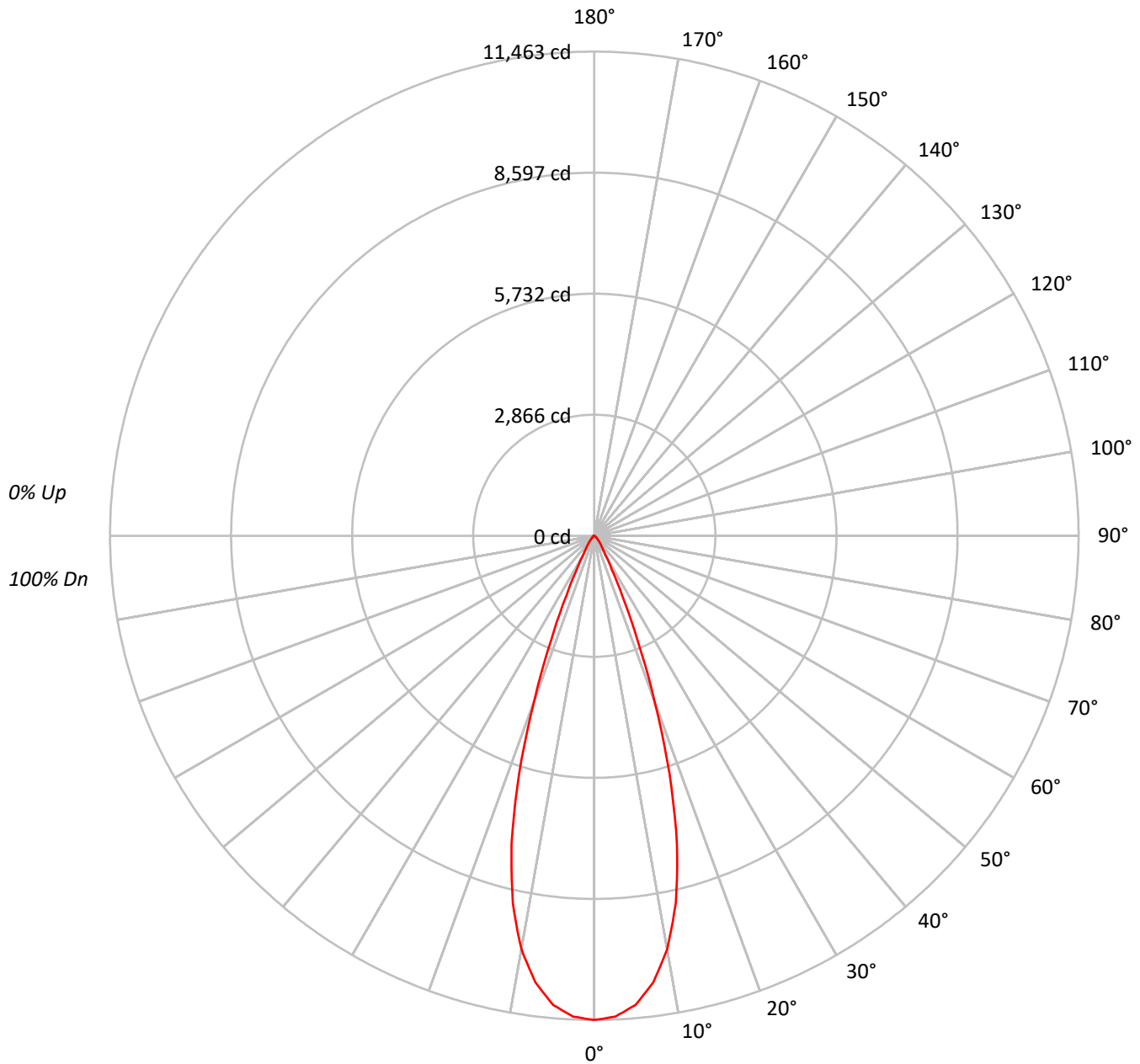


Downlight

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96		
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92		
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88		
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84		
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81		
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78		
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75		
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72		
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70		
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1252434
5°	1223010
10°	1102251
15°	855523
20°	485242
25°	188778
30°	70424
35°	38601
40°	25231
45°	15359
50°	9774
55°	6915
60°	5048
65°	2740
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15359 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.6	24.6
10°-20°	2002.3	48.1
20°-30°	816.6	19.6
30°-40°	195.4	4.7
40°-50°	81.4	2.0
50°-60°	33.7	0.8
60°-70°	10.6	0.3
70°-80°	0.2	0.0
80°-90°	0.2	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°	3844.5	92.3
0°-40°	4039.9	97.0
0°-60°	4155.1	99.7
0°-90°	4166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4166.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11463	
5°	11151	###
15°	7563	2002
25°	1566	817
35°	289	195
45°	99	81
55°	36	34
65°	11	11
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11462.8
2.5°	11394.1
5°	11150.9
7.5°	10665.8
10°	9935.0
12.5°	8906.1
15°	7563.3
17.5°	5921.1
20°	4173.3
22.5°	2661.1
25°	1565.9
27.5°	885.2
30°	558.2
32.5°	392.0
35°	289.4
37.5°	223.8
40°	176.9
42.5°	136.3
45°	99.4
47.5°	74.4
50°	57.5
52.5°	45.6
55°	36.3
57.5°	29.4
60°	23.1
62.5°	16.9
65°	10.6
67.5°	3.8
70°	0.6
72.5°	0.6
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.6
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)