

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: P781537

Luminaire Tested: LER4D45BD010-EC4DR4040509050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781537
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-EC4DR4040509050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4824.1 lumens
Efficiency: N/A
Efficacy: 124.7 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 (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

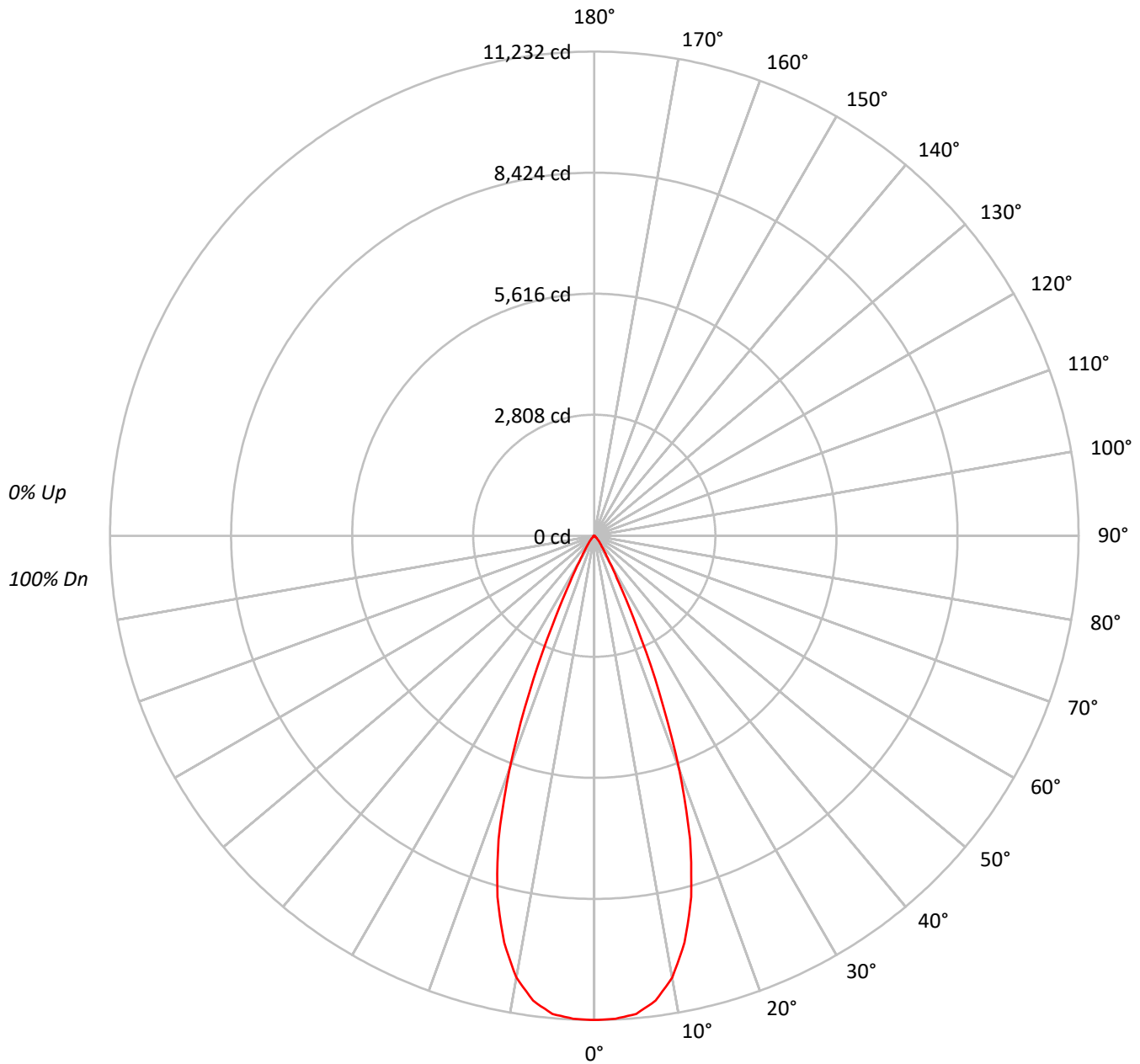


Downlight

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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
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°	1227195
5°	1221222
10°	1154329
15°	981318
20°	668848
25°	279075
30°	87747
35°	40788
40°	22550
45°	10337
50°	5014
55°	2743
60°	1442
65°	517
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.7	21.6
10°-20°	2329.2	48.3
20°-30°	1165.9	24.2
30°-40°	213.7	4.4
40°-50°	59.0	1.2
50°-60°	13.9	0.3
60°-70°	2.7	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°	4534.8	94.0
0°-40°	4748.5	98.4
0°-60°	4821.4	99.9
0°-90°	4824.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4824.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11232	
5°	11135	###
15°	8675	2329
25°	2315	1166
35°	306	214
45°	67	59
55°	14	14
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11231.8
2.5°	11215.3
5°	11134.6
7.5°	10877.4
10°	10404.4
12.5°	9666.9
15°	8675.4
17.5°	7386.1
20°	5752.4
22.5°	3921.7
25°	2314.9
27.5°	1223.7
30°	695.5
32.5°	449.5
35°	305.8
37.5°	218.5
40°	158.1
42.5°	108.3
45°	66.9
47.5°	42.6
50°	29.5
52.5°	21.0
55°	14.4
57.5°	9.2
60°	6.6
62.5°	3.9
65°	2.0
67.5°	1.3
70°	0.7
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)