

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: P781526

Luminaire Tested: LER4D45BD010-EC4DR4040509030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781526
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-EC4DR4040509030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4754.7 lumens
Efficiency: N/A
Efficacy: 122.9 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

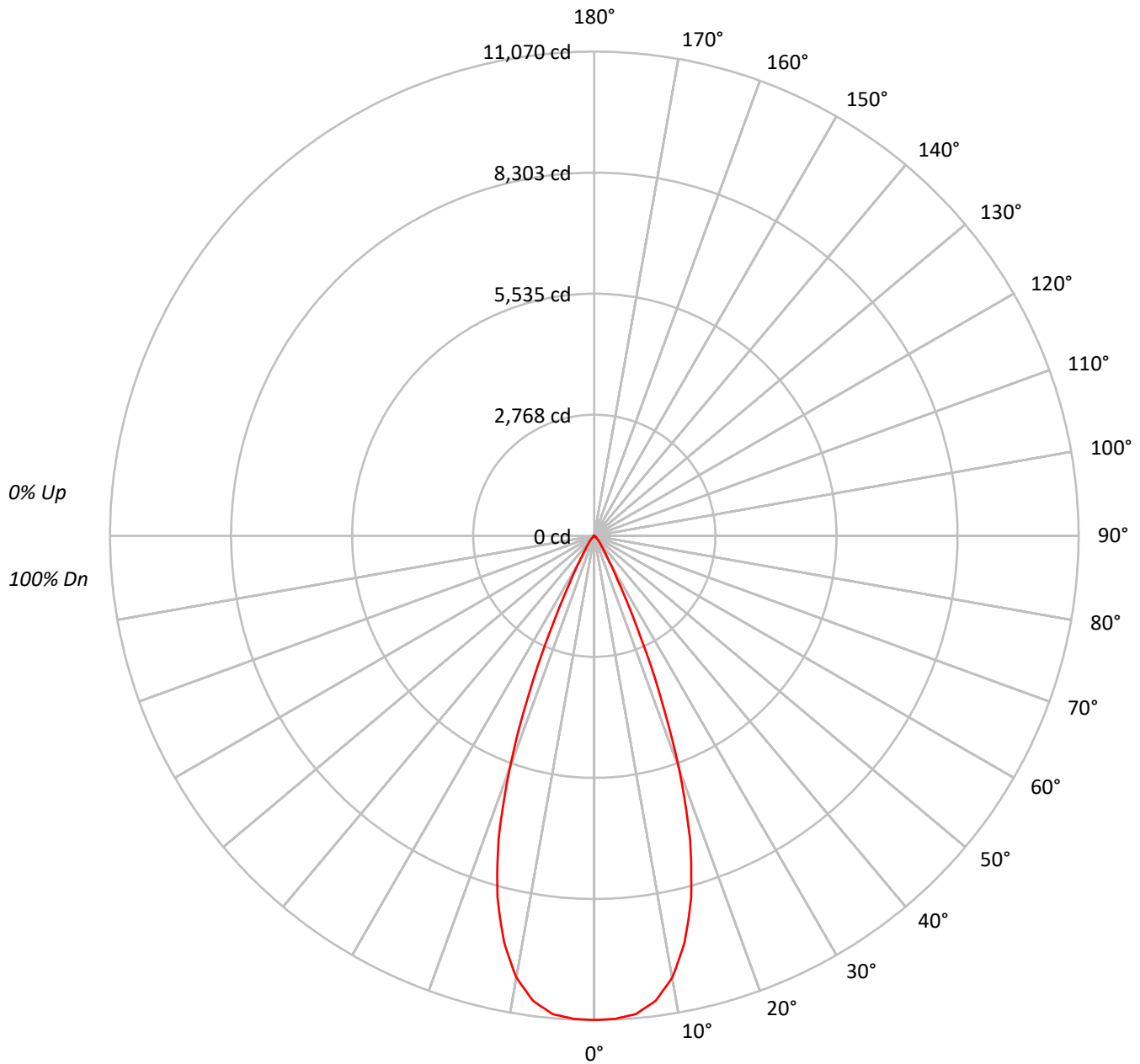


Downlight

TEST NUMBER: P781526

CATALOG NUMBER: LER4D45BD010-EC4DR4040509030-4LBS1LI

Luminous Intensity Polar Plot





TEST NUMBER: P781526

CATALOG NUMBER: LER4D45BD010-EC4DR4040509030-4LBS1LI

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	97	96		
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92		
3	106	101	97	94	104	100	96	93	97	94	92	95	93	90	93	91	89	88		
4	102	97	92	89	101	95	91	88	93	90	87	92	89	86	90	87	85	84		
5	99	92	88	84	97	91	87	84	90	86	83	88	85	83	87	84	82	81		
6	95	88	84	80	94	88	83	80	86	82	80	85	82	79	84	81	79	77		
7	92	85	80	77	91	84	80	77	83	79	76	82	79	76	81	78	76	74		
8	89	82	77	74	88	81	77	74	80	76	73	79	76	73	78	75	73	72		
9	86	79	74	71	85	78	74	71	77	73	71	76	73	70	76	72	70	69		
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1209527
5°	1203651
10°	1137710
15°	967202
20°	659221
25°	275048
30°	86485
35°	40202
40°	22236
45°	10198
50°	4946
55°	2705
60°	1420
65°	491
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10198 cd/sqm



TEST NUMBER: P781526

CATALOG NUMBER: LER4D45BD010-EC4DR4040509030-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1024.7	21.6
10°-20°	2295.7	48.3
20°-30°	1149.1	24.2
30°-40°	210.7	4.4
40°-50°	58.1	1.2
50°-60°	13.7	0.3
60°-70°	2.6	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°	4469.5	94.0
0°-40°	4680.2	98.4
0°-60°	4752.0	99.9
0°-90°	4754.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4754.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11070	
5°	10974	###
15°	8551	2296
25°	2282	1149
35°	301	211
45°	66	58
55°	14	14
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P781526

CATALOG NUMBER: LER4D45BD010-EC4DR4040509030-4LBS1LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	11070.1
2.5°	11053.9
5°	10974.4
7.5°	10720.9
10°	10254.6
12.5°	9527.7
15°	8550.6
17.5°	7279.8
20°	5669.6
22.5°	3865.3
25°	2281.5
27.5°	1206.1
30°	685.5
32.5°	443.0
35°	301.4
37.5°	215.3
40°	155.9
42.5°	106.7
45°	66.0
47.5°	42.0
50°	29.1
52.5°	20.7
55°	14.2
57.5°	9.1
60°	6.5
62.5°	3.9
65°	1.9
67.5°	1.3
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)