

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: P781629

Luminaire Tested: LER4D45BD010-EC4DR6040509040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR6040509040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4601.4 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

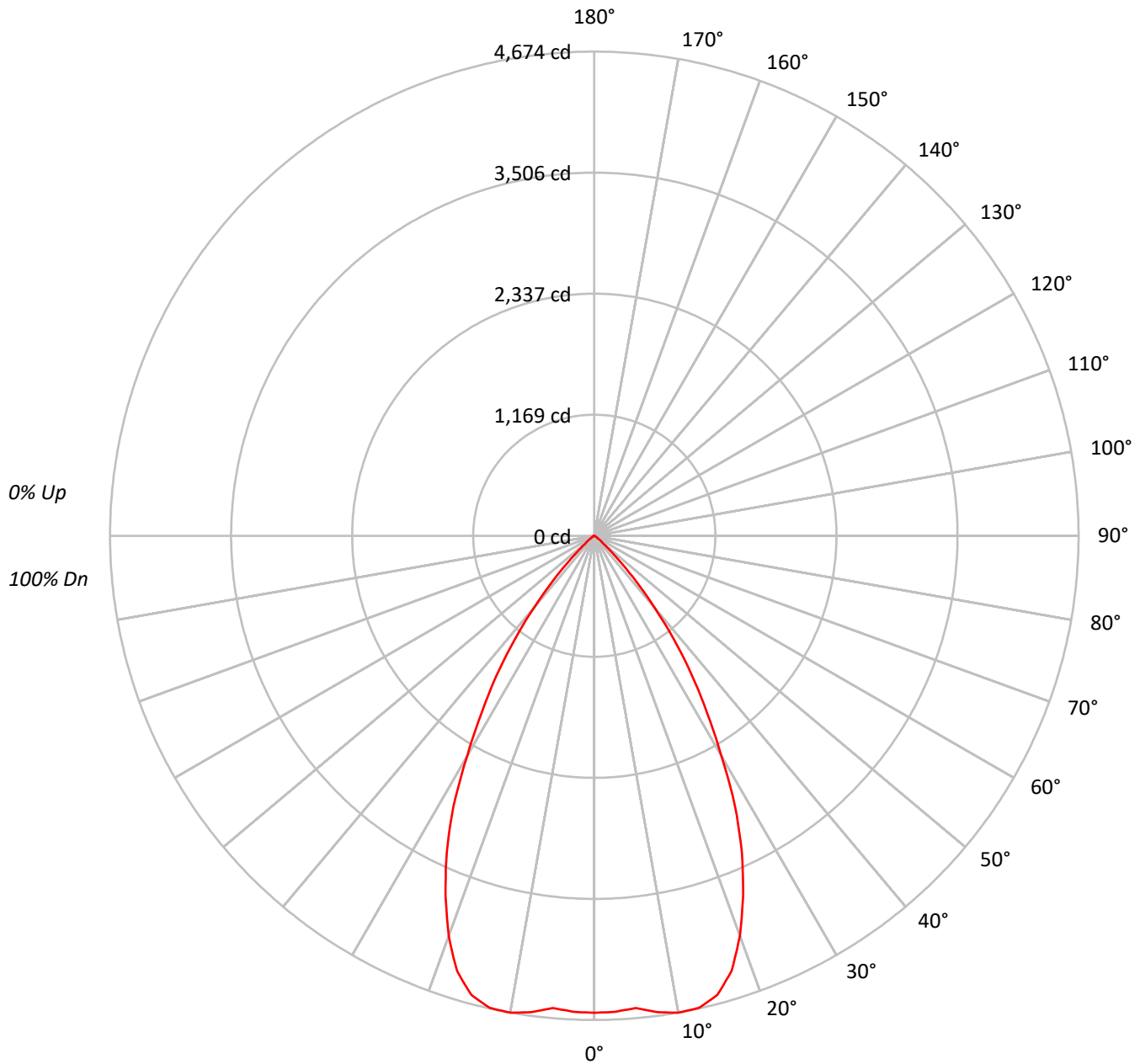


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	87	79	73	68		86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	63		82	73	67	63		72	67	63		71	66	63		69	65	62
8	79	69	63	59		78	69	63	59		68	63	59		67	62	59		66	61	58
9	75	65	59	55		74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52		71	61	56	52		61	55	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	503113
5°	501887
10°	518552
15°	519085
20°	477614
25°	406249
30°	309542
35°	218894
40°	128538
45°	51872
50°	17321
55°	8343
60°	3431
65°	517
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 51872 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.4	9.6
10°-20°	1271.3	27.6
20°-30°	1521.6	33.1
30°-40°	1017.7	22.1
40°-50°	301.8	6.6
50°-60°	43.4	0.9
60°-70°	4.1	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°	3234.3	70.3
0°-40°	4252.1	92.4
0°-60°	4597.2	99.9
0°-90°	4601.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4601.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4605	
5°	4576	441
15°	4589	1271
25°	3370	1522
35°	1641	1018
45°	336	302
55°	44	43
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4604.7
2.5°	4598.8
5°	4576.0
7.5°	4638.0
10°	4673.9
12.5°	4667.4
15°	4589.0
17.5°	4404.2
20°	4107.7
22.5°	3751.8
25°	3369.8
27.5°	2939.4
30°	2453.5
32.5°	2019.9
35°	1641.1
37.5°	1261.7
40°	901.2
42.5°	594.3
45°	335.7
47.5°	171.8
50°	101.9
52.5°	66.0
55°	43.8
57.5°	28.1
60°	15.7
62.5°	6.5
65°	2.0
67.5°	0.7
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)