

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: P781577

Luminaire Tested: LER4D45BD010-EC4DR5040509035-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D45BD010-EC4DR5040509035-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4547.1 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
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

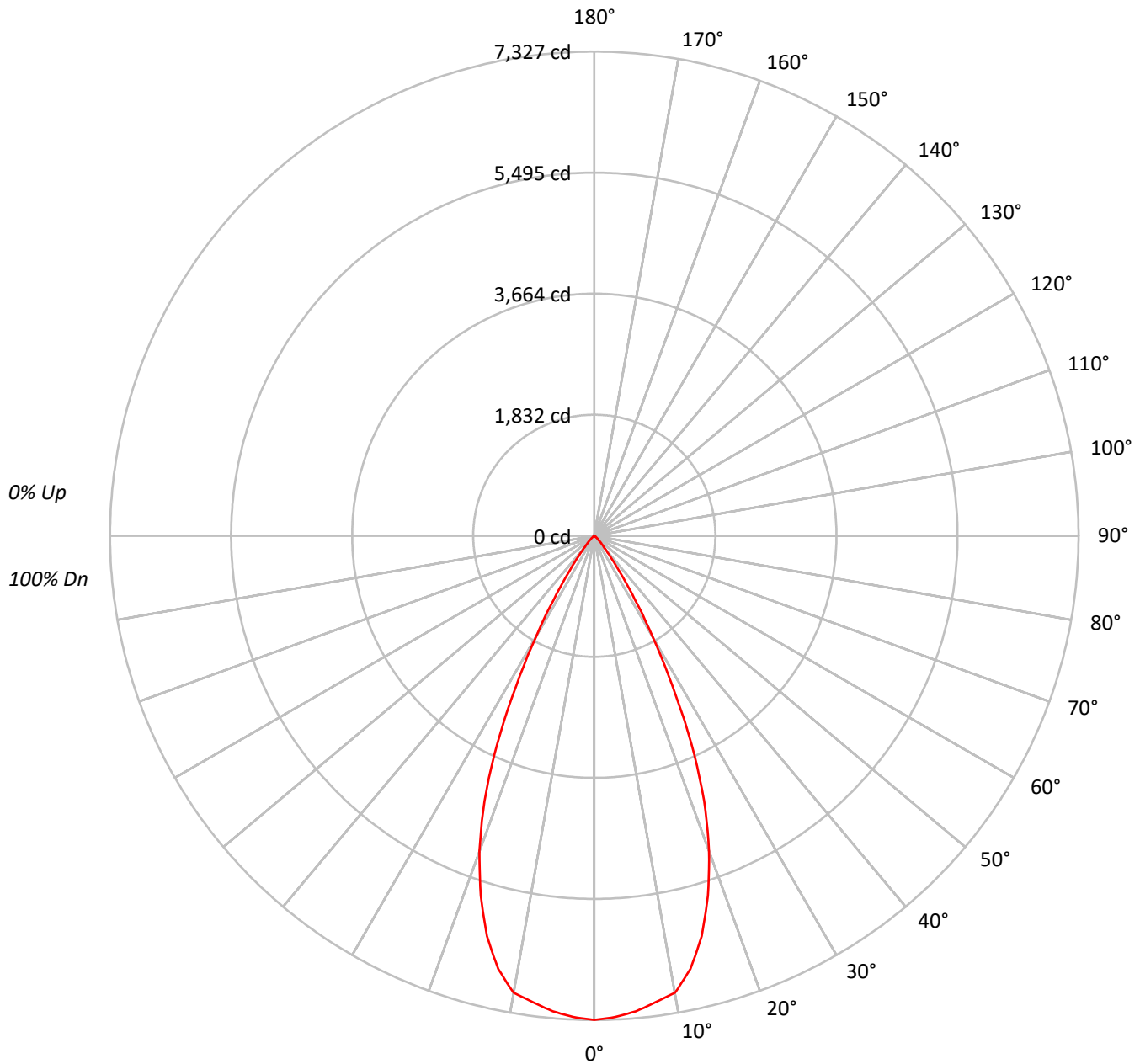


Downlight

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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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	114	112	109	107	112	110	108	106		106	104	102			102	101	99			95
2	109	105	101	98	107	103	100	97		100	98	95			97	95	93			90
3	105	99	95	91	103	98	94	90		95	92	89			93	90	88			85
4	100	94	89	85	99	93	88	85		90	87	84			89	85	83			80
5	96	89	84	80	95	88	83	79		86	82	79			85	81	78			76
6	92	84	79	75	91	83	79	75		82	78	74			81	77	74			72
7	88	80	75	71	87	79	74	71		78	74	71			77	73	70			69
8	85	76	71	67	84	76	71	67		75	70	67			74	70	67			65
9	81	73	68	64	80	72	67	64		71	67	64			71	67	64			62
10	78	70	64	61	77	69	64	61		68	64	61			68	64	61			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	800510
5°	792117
10°	779065
15°	709401
20°	590306
25°	419028
30°	221795
35°	90380
40°	33561
45°	15359
50°	6306
55°	3295
60°	1617
65°	491
70°	0
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°	682.6	15.0
10°-20°	1725.2	37.9
20°-30°	1549.7	34.1
30°-40°	485.2	10.7
40°-50°	84.9	1.9
50°-60°	16.9	0.4
60°-70°	2.6	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°	3957.5	87.0
0°-40°	4442.7	97.7
0°-60°	4544.5	99.9
0°-90°	4547.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4547.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7327	
5°	7222	683
15°	6272	1725
25°	3476	1550
35°	678	485
45°	99	85
55°	17	17
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7326.6
2.5°	7290.1
5°	7222.2
7.5°	7118.4
10°	7022.0
12.5°	6713.2
15°	6271.5
17.5°	5710.6
20°	5076.9
22.5°	4343.7
25°	3475.8
27.5°	2555.4
30°	1758.0
32.5°	1144.6
35°	677.6
37.5°	389.2
40°	235.3
42.5°	153.2
45°	99.4
47.5°	60.5
50°	37.1
52.5°	25.3
55°	17.3
57.5°	11.7
60°	7.4
62.5°	4.3
65°	1.9
67.5°	0.6
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)