

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: P785020

Luminaire Tested: LER4DD45BD010-EC4DR6040509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785020
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2788.5 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

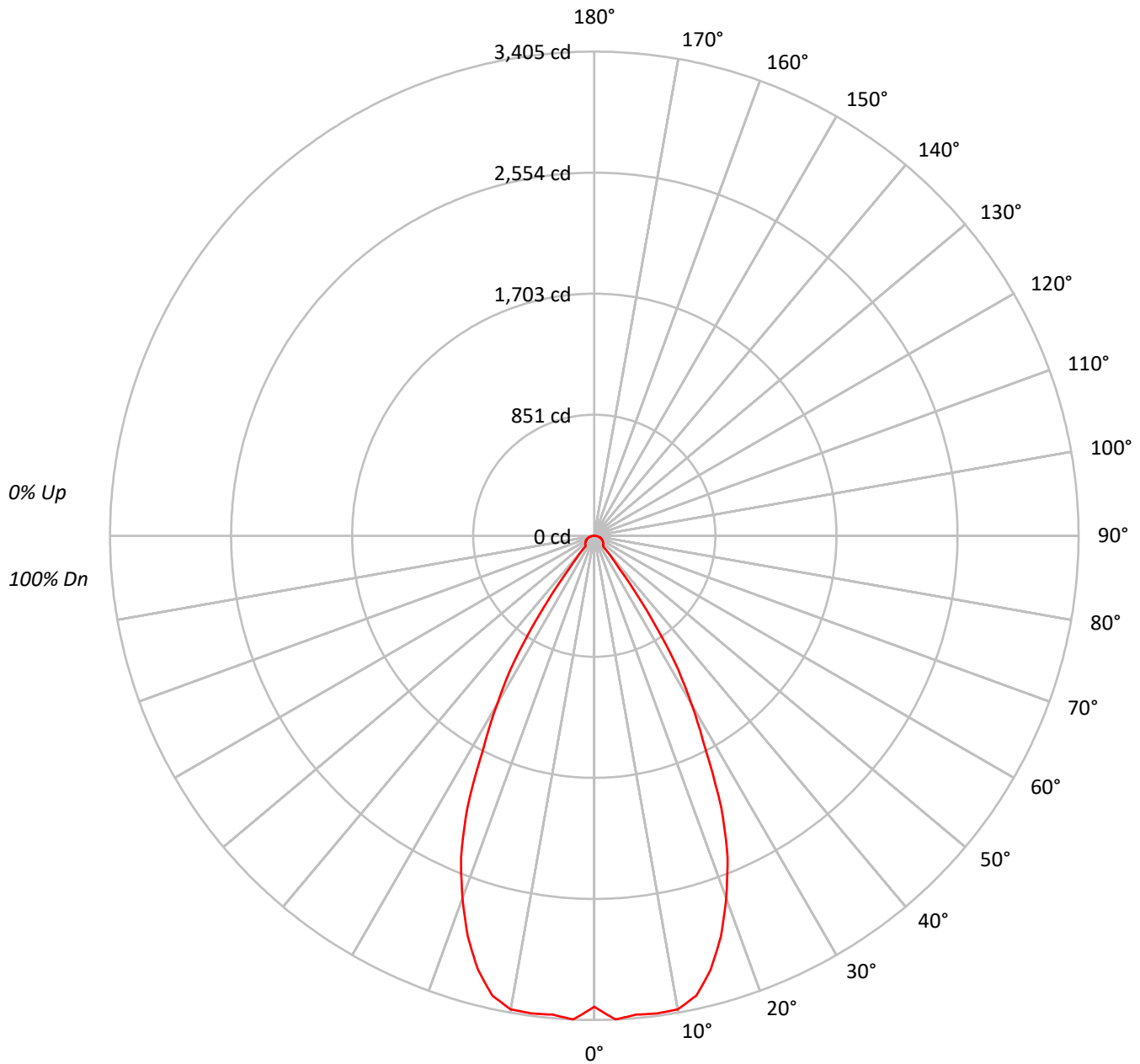


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92
3	102	96	90	86	100	94	89	86	91	88	84		89	86	83		87
4	97	89	84	80	95	88	83	79	86	82	78		84	80	77		82
5	92	84	78	74	91	83	78	74	81	77	73		80	76	72		78
6	88	79	73	69	87	78	73	69	77	72	68		75	71	68		74
7	84	75	69	65	83	74	68	64	73	68	64		72	67	64		71
8	80	71	65	61	79	70	65	61	69	64	60		68	64	60		67
9	77	67	61	57	75	67	61	57	66	61	57		65	60	57		64
10	73	64	58	54	72	63	58	54	62	58	54		62	57	54		61

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	361839
5°	370734
10°	375209
15°	357444
20°	315158
25°	254903
30°	172428
35°	86405
40°	14021
45°	13721
50°	13989
55°	14211
60°	14597
65°	14943
70°	15270
75°	15451
80°	14912
85°	12411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 15451 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	11.6
10°-20°	874.1	31.3
20°-30°	940.4	33.7
30°-40°	408.8	14.7
40°-50°	68.7	2.5
50°-60°	66.8	2.4
60°-70°	57.1	2.0
70°-80°	38.2	1.4
80°-90°	11.4	0.4
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°	2137.6	76.7
0°-40°	2546.4	91.3
0°-60°	2681.8	96.2
0°-90°	2788.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3312	
5°	3380	323
15°	3160	874
25°	2114	940
35°	648	409
45°	89	69
55°	75	67
65°	58	57
75°	37	38
85°	10	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3311.7
2.5°	3404.8
5°	3380.2
7.5°	3388.0
10°	3381.9
12.5°	3312.1
15°	3160.0
17.5°	2955.7
20°	2710.5
22.5°	2448.0
25°	2114.4
27.5°	1691.2
30°	1366.7
32.5°	1053.3
35°	647.8
37.5°	277.1
40°	98.3
42.5°	90.5
45°	88.8
47.5°	85.8
50°	82.3
52.5°	78.4
55°	74.6
57.5°	70.7
60°	66.8
62.5°	62.5
65°	57.8
67.5°	53.0
70°	47.8
72.5°	42.2
75°	36.6
77.5°	30.2
80°	23.7
82.5°	16.8
85°	9.9
87.5°	3.4
90°	0.0



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— 0°-180°







(END OF REPORT)