

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: P785052

Luminaire Tested: LER4DD45BD010-EC4DR6540509030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD45BD010-EC4DR6540509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2689.7 lumens
Efficiency: N/A
Efficacy: 69.5 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

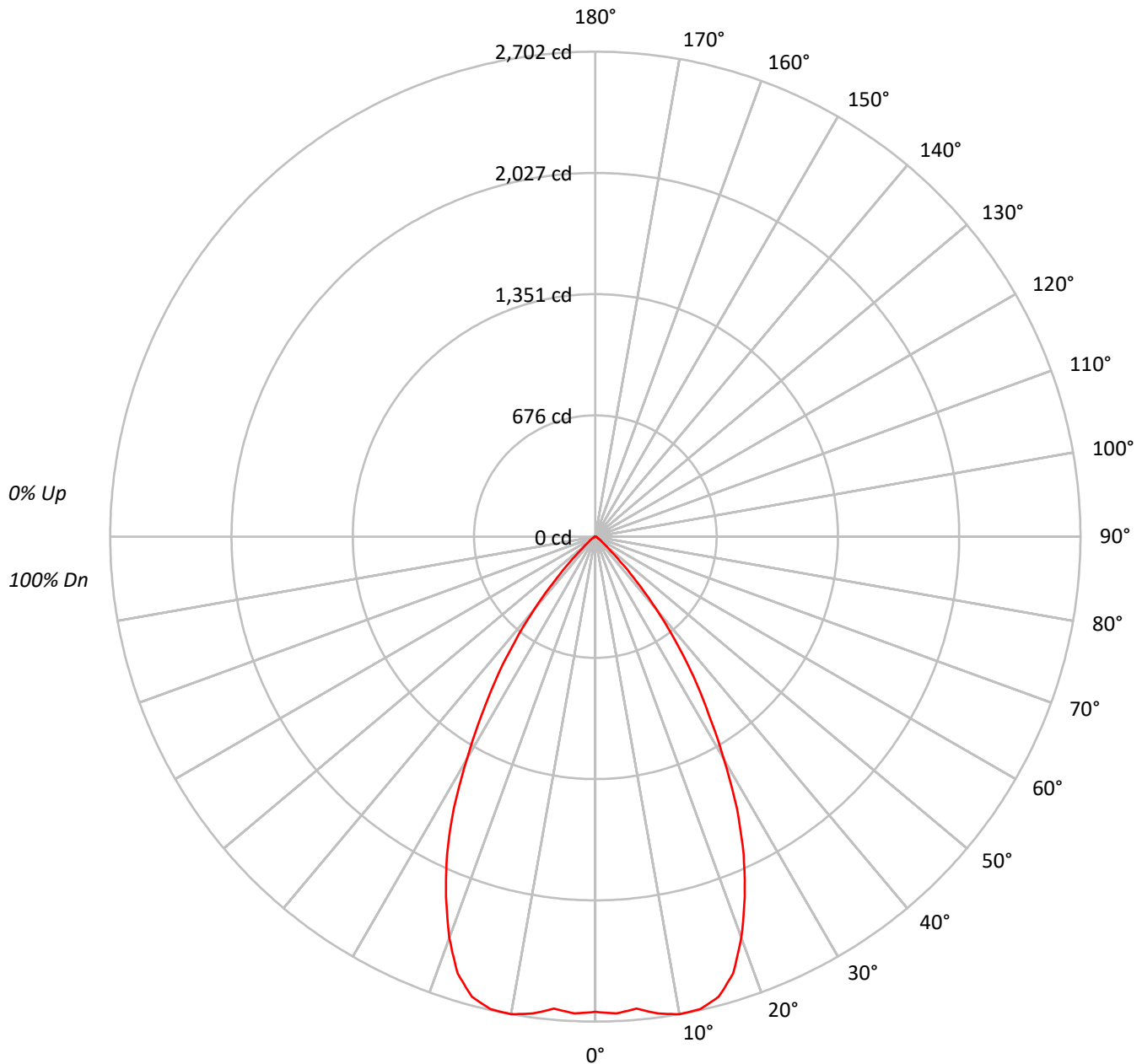


Downlight

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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	289344
5°	289583
10°	299777
15°	300275
20°	276450
25°	235554
30°	180325
35°	127394
40°	75194
45°	30533
50°	11066
55°	6172
60°	3540
65°	1939
70°	2045
75°	1604
80°	1636
85°	1379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 30533 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	9.5
10°-20°	735.6	27.3
20°-30°	882.5	32.8
30°-40°	593.1	22.1
40°-50°	177.5	6.6
50°-60°	31.3	1.2
60°-70°	8.9	0.3
70°-80°	4.4	0.2
80°-90°	1.4	0.1
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°	1873.1	69.6
0°-40°	2466.2	91.7
0°-60°	2675.0	99.5
0°-90°	2689.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2648	
5°	2640	255
15°	2655	736
25°	1954	883
35°	955	593
45°	198	178
55°	32	31
65°	8	9
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2648.2
2.5°	2659.5
5°	2640.3
7.5°	2680.2
10°	2702.0
12.5°	2696.7
15°	2654.6
17.5°	2551.5
20°	2377.6
22.5°	2172.9
25°	1953.9
27.5°	1706.6
30°	1429.3
32.5°	1177.9
35°	955.1
37.5°	735.0
40°	527.2
42.5°	344.3
45°	197.6
47.5°	104.6
50°	65.1
52.5°	45.2
55°	32.4
57.5°	23.3
60°	16.2
62.5°	10.5
65°	7.5
67.5°	6.8
70°	6.4
72.5°	4.9
75°	3.8
77.5°	3.4
80°	2.6
82.5°	1.9
85°	1.1
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)