

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: P784808

Luminaire Tested: LER4DD40BD010-EC4DR6540509027-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784808
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: LER4DD40BD010-EC4DR6540509027-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2383.4 lumens
Efficiency: N/A
Efficacy: 67.7 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): 35.2
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

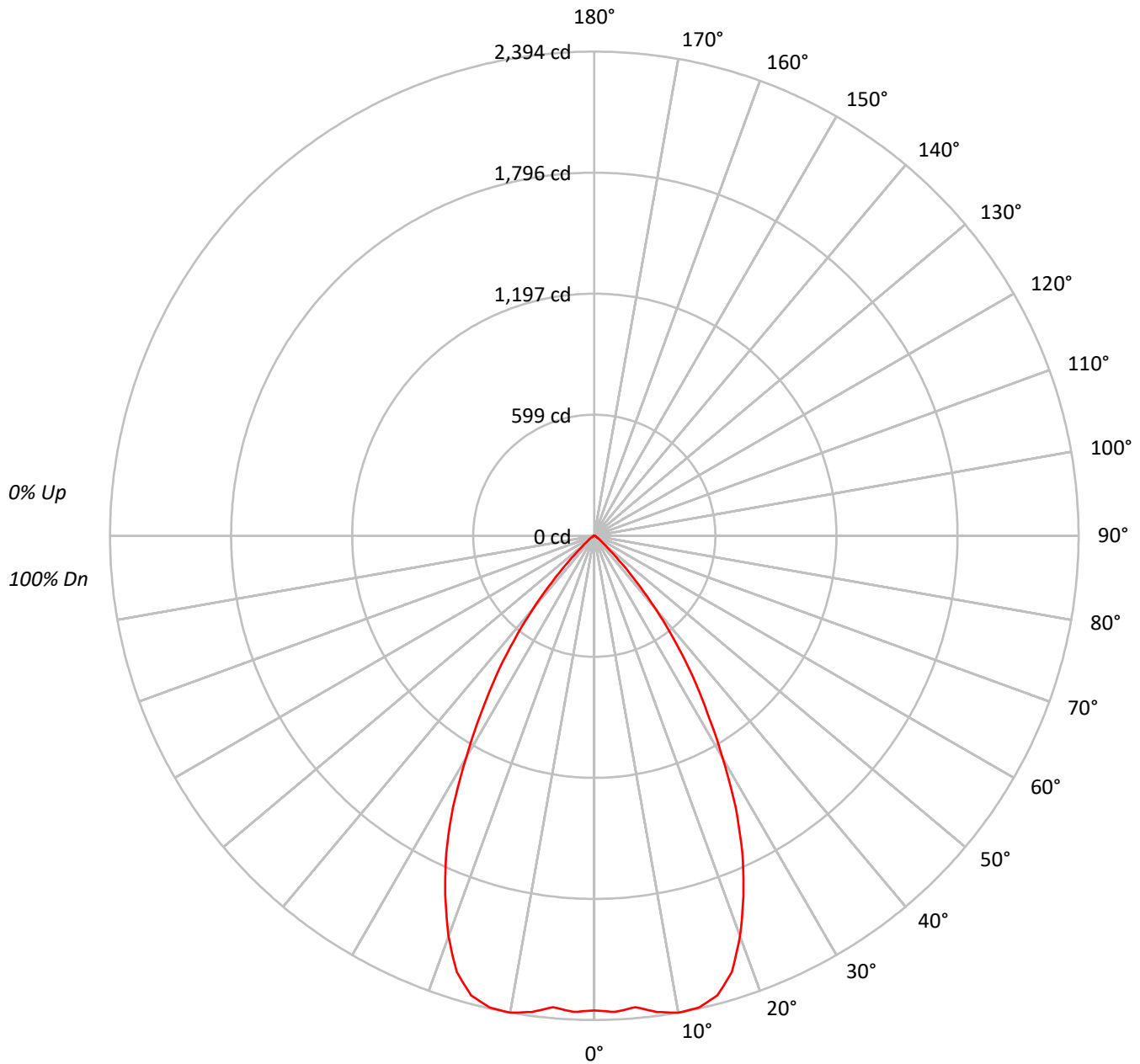


Downlight

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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°	256391
5°	256603
10°	265639
15°	266081
20°	244975
25°	208730
30°	159786
35°	112895
40°	66637
45°	27056
50°	9808
55°	5467
60°	3125
65°	1732
70°	1821
75°	1393
80°	1447
85°	1254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27056 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.0	9.5
10°-20°	651.8	27.3
20°-30°	782.0	32.8
30°-40°	525.6	22.1
40°-50°	157.3	6.6
50°-60°	27.8	1.2
60°-70°	7.9	0.3
70°-80°	3.8	0.2
80°-90°	1.2	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°	1659.8	69.6
0°-40°	2185.4	91.7
0°-60°	2370.5	99.5
0°-90°	2383.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2347	
5°	2340	226
15°	2352	652
25°	1731	782
35°	846	526
45°	175	157
55°	29	28
65°	7	8
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2346.6
2.5°	2356.7
5°	2339.6
7.5°	2375.0
10°	2394.3
12.5°	2389.7
15°	2352.3
17.5°	2260.9
20°	2106.9
22.5°	1925.5
25°	1731.4
27.5°	1512.3
30°	1266.5
32.5°	1043.8
35°	846.4
37.5°	651.3
40°	467.2
42.5°	305.1
45°	175.1
47.5°	92.7
50°	57.7
52.5°	40.0
55°	28.7
57.5°	20.7
60°	14.3
62.5°	9.3
65°	6.7
67.5°	6.0
70°	5.7
72.5°	4.3
75°	3.3
77.5°	3.0
80°	2.3
82.5°	1.7
85°	1.0
87.5°	0.7
90°	0.0



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— 0°-180°







(END OF REPORT)