

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: P784782

Luminaire Tested: LER4DD40BD010-EC4DR6040509024-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784782
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: LER4DD40BD010-EC4DR6040509024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3394.4 lumens
Efficiency: N/A
Efficacy: 96.4 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): 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

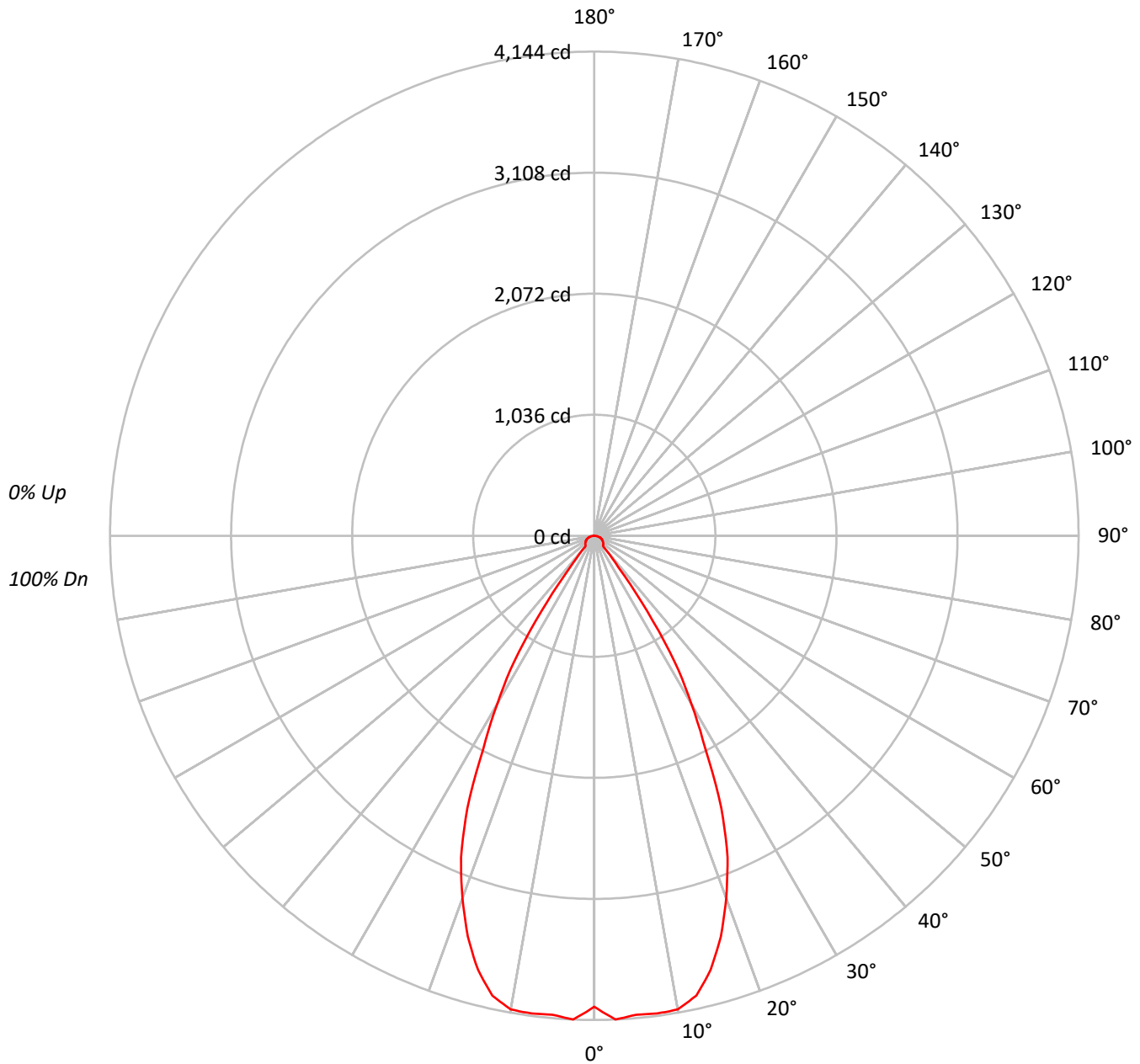


Downlight

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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	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°	440452
5°	451282
10°	456733
15°	435097
20°	383631
25°	310287
30°	209886
35°	105172
40°	17059
45°	16703
50°	17032
55°	17297
60°	17766
65°	18175
70°	18592
75°	18828
80°	18184
85°	15169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 18828 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.3	11.6
10°-20°	1064.0	31.3
20°-30°	1144.8	33.7
30°-40°	497.6	14.7
40°-50°	83.6	2.5
50°-60°	81.3	2.4
60°-70°	69.5	2.0
70°-80°	46.5	1.4
80°-90°	13.9	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°	2602.0	76.7
0°-40°	3099.6	91.3
0°-60°	3264.4	96.2
0°-90°	3394.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4031	
5°	4115	393
15°	3846	1064
25°	2574	1145
35°	788	498
45°	108	84
55°	91	81
65°	70	69
75°	45	47
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4031.2
2.5°	4144.5
5°	4114.6
7.5°	4124.1
10°	4116.7
12.5°	4031.7
15°	3846.5
17.5°	3597.9
20°	3299.4
22.5°	2979.9
25°	2573.8
27.5°	2058.6
30°	1663.6
32.5°	1282.2
35°	788.5
37.5°	337.3
40°	119.6
42.5°	110.2
45°	108.1
47.5°	104.4
50°	100.2
52.5°	95.5
55°	90.8
57.5°	86.0
60°	81.3
62.5°	76.1
65°	70.3
67.5°	64.5
70°	58.2
72.5°	51.4
75°	44.6
77.5°	36.7
80°	28.9
82.5°	20.5
85°	12.1
87.5°	4.2
90°	0.0



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— 0°-180°







(END OF REPORT)