

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: P784834

Luminaire Tested: LER4DD40BD010-EC4DR7040509027-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD40BD010-EC4DR7040509027-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3870.2 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
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

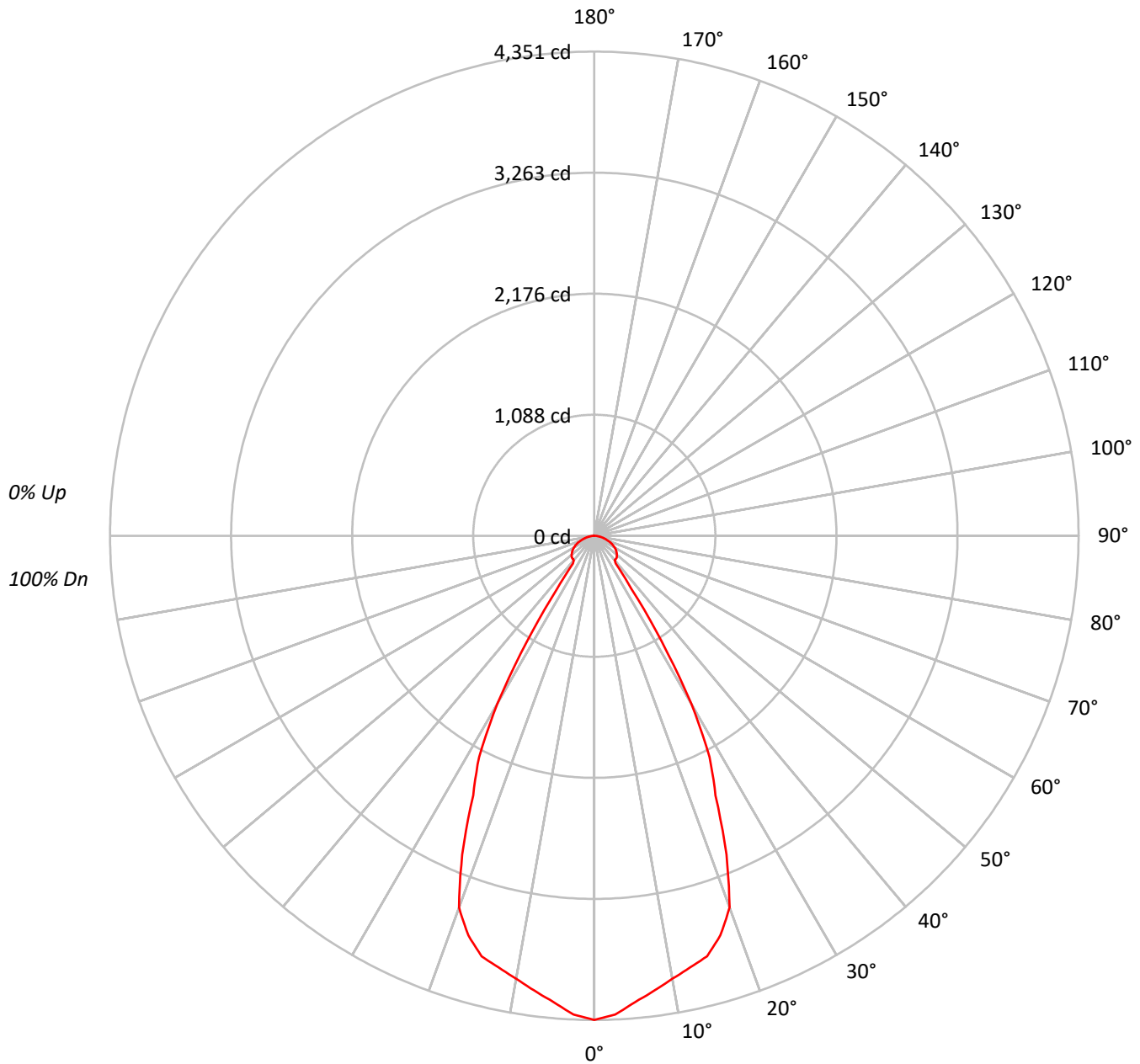


Downlight

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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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	475426
5°	461295
10°	448434
15°	442551
20°	413257
25°	310456
30°	219461
35°	77735
40°	40878
45°	43543
50°	45079
55°	45927
60°	46217
65°	45243
70°	42711
75°	39556
80°	35110
85°	28457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 46222 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.7	10.3
10°-20°	1088.1	28.1
20°-30°	1198.5	31.0
30°-40°	457.9	11.8
40°-50°	216.2	5.6
50°-60°	214.9	5.6
60°-70°	172.1	4.4
70°-80°	98.9	2.6
80°-90°	26.9	0.7
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°	2683.3	69.3
0°-40°	3141.2	81.2
0°-60°	3572.3	92.3
0°-90°	3870.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3870.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4351	
5°	4206	397
15°	3912	1088
25°	2575	1198
35°	583	458
45°	282	216
55°	241	215
65°	175	172
75°	94	99
85°	23	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4351.3
2.5°	4305.8
5°	4205.9
7.5°	4122.6
10°	4041.9
12.5°	3973.7
15°	3912.4
17.5°	3764.3
20°	3554.2
22.5°	3100.9
25°	2575.2
27.5°	2241.8
30°	1739.5
32.5°	1123.6
35°	582.8
37.5°	314.8
40°	286.6
42.5°	284.5
45°	281.8
47.5°	275.6
50°	265.2
52.5°	253.5
55°	241.1
57.5°	227.3
60°	211.5
62.5°	193.6
65°	175.0
67.5°	154.3
70°	133.7
72.5°	113.0
75°	93.7
77.5°	73.7
80°	55.8
82.5°	39.3
85°	22.7
87.5°	9.0
90°	0.0



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— 0°-180°







(END OF REPORT)