

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: P784837

Luminaire Tested: LER4DD40BD010-EC4DR7040509030-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784837
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-EC4DR7040509030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3797.4 lumens
Efficiency: N/A
Efficacy: 107.9 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

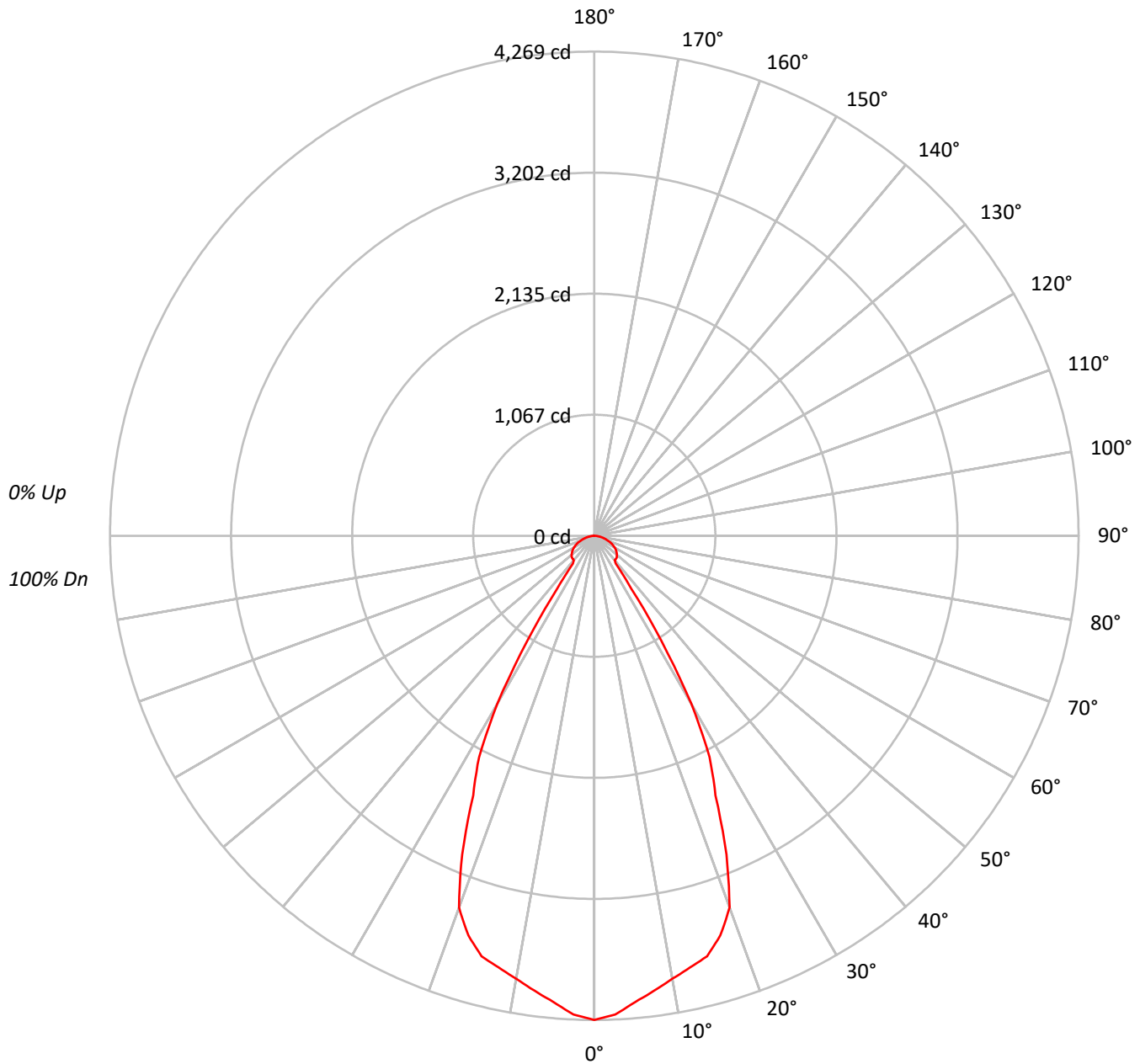


Downlight

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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°	466467
5°	452609
10°	439991
15°	434215
20°	405467
25°	304609
30°	215336
35°	76282
40°	40107
45°	42724
50°	44229
55°	45070
60°	45343
65°	44390
70°	41881
75°	38796
80°	34481
85°	27956

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 45368 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.2	10.3
10°-20°	1067.7	28.1
20°-30°	1175.9	31.0
30°-40°	449.3	11.8
40°-50°	212.1	5.6
50°-60°	210.9	5.6
60°-70°	168.8	4.4
70°-80°	97.0	2.6
80°-90°	26.4	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°	2632.8	69.3
0°-40°	3082.0	81.2
0°-60°	3505.1	92.3
0°-90°	3797.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4269	
5°	4127	389
15°	3839	1068
25°	2527	1176
35°	572	449
45°	276	212
55°	237	211
65°	172	169
75°	92	97
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4269.3
2.5°	4224.7
5°	4126.7
7.5°	4044.9
10°	3965.8
12.5°	3898.9
15°	3838.7
17.5°	3693.4
20°	3487.2
22.5°	3042.5
25°	2526.7
27.5°	2199.5
30°	1706.8
32.5°	1102.5
35°	571.9
37.5°	308.9
40°	281.2
42.5°	279.2
45°	276.5
47.5°	270.4
50°	260.2
52.5°	248.8
55°	236.6
57.5°	223.1
60°	207.5
62.5°	189.9
65°	171.7
67.5°	151.4
70°	131.1
72.5°	110.9
75°	91.9
77.5°	72.3
80°	54.8
82.5°	38.5
85°	22.3
87.5°	8.8
90°	0.0



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— 0°-180°







(END OF REPORT)