

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: P784790

Luminaire Tested: LER4DD40BD010-EC4DR6040509030-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784790
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-EC4DR6040509030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3961.2 lumens
Efficiency: N/A
Efficacy: 112.5 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

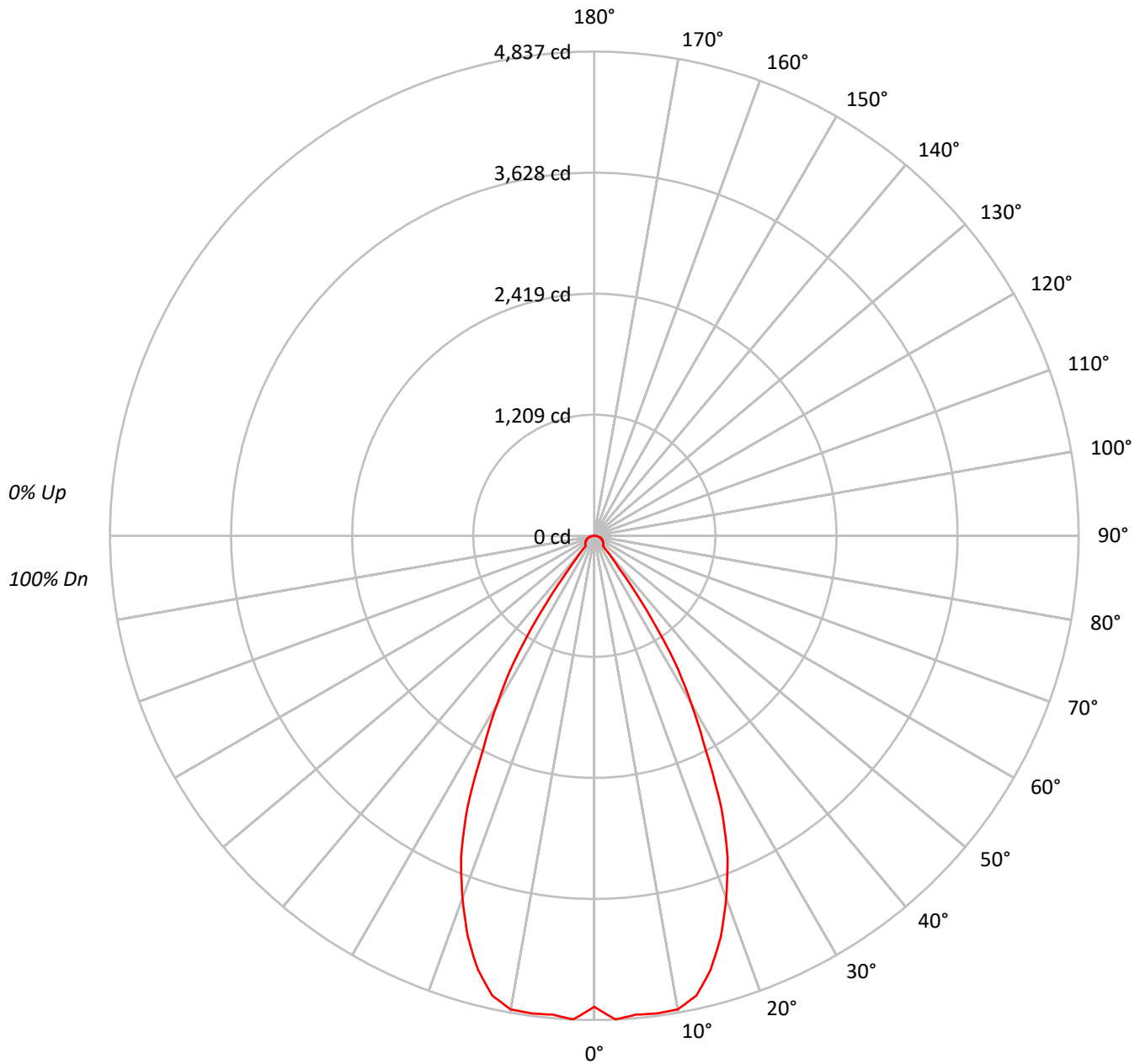


Downlight

TEST NUMBER: P784790

CATALOG NUMBER: LER4DD40BD010-EC4DR6040509030-4LBDP1LI

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°	514017
5°	526652
10°	533019
15°	507773
20°	447697
25°	362114
30°	244934
35°	122739
40°	19911
45°	19485
50°	19871
55°	20173
60°	20738
65°	21200
70°	21723
75°	21952
80°	21204
85°	17676

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 21952 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.9	11.6
10°-20°	1241.7	31.3
20°-30°	1335.9	33.7
30°-40°	580.7	14.7
40°-50°	97.5	2.5
50°-60°	94.8	2.4
60°-70°	81.1	2.0
70°-80°	54.3	1.4
80°-90°	16.3	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°	3036.5	76.7
0°-40°	3617.2	91.3
0°-60°	3809.6	96.2
0°-90°	3961.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4704	
5°	4802	459
15°	4489	1242
25°	3004	1336
35°	920	581
45°	126	98
55°	106	95
65°	82	81
75°	52	54
85°	14	16
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4704.5
2.5°	4836.7
5°	4801.8
7.5°	4812.8
10°	4804.3
12.5°	4705.1
15°	4489.0
17.5°	4198.8
20°	3850.4
22.5°	3477.5
25°	3003.7
27.5°	2402.4
30°	1941.4
32.5°	1496.3
35°	920.2
37.5°	393.7
40°	139.6
42.5°	128.6
45°	126.1
47.5°	121.8
50°	116.9
52.5°	111.4
55°	105.9
57.5°	100.4
60°	94.9
62.5°	88.8
65°	82.0
67.5°	75.3
70°	68.0
72.5°	60.0
75°	52.0
77.5°	42.9
80°	33.7
82.5°	23.9
85°	14.1
87.5°	4.9
90°	0.0



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— 0°-180°







(END OF REPORT)