

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: P784805

Luminaire Tested: LER4DD40BD010-EC4DR6540509024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784805
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-EC4DR6540509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2824.7 lumens
Efficiency: N/A
Efficacy: 80.2 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

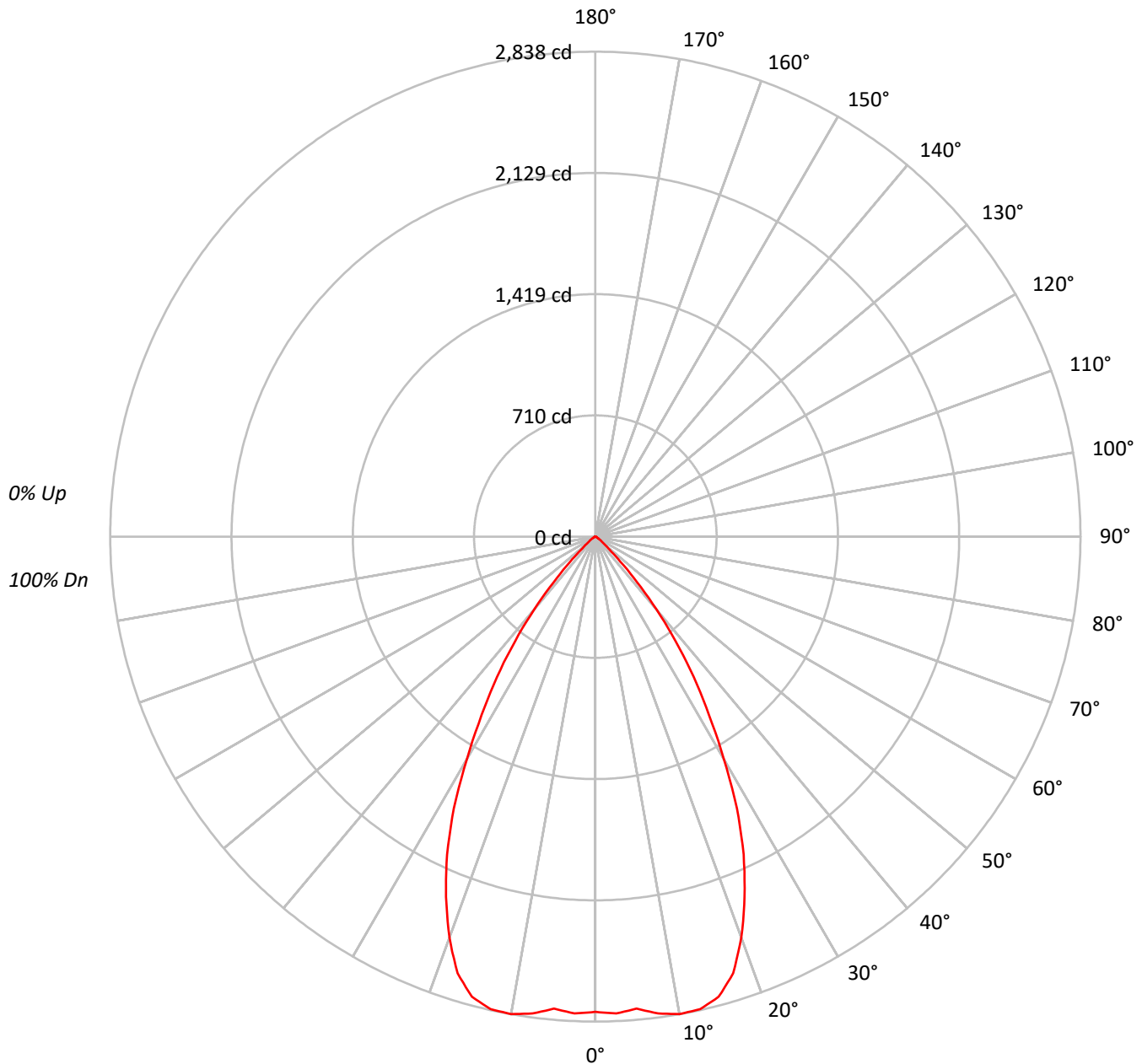


Downlight

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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°	303865
5°	304115
10°	314821
15°	315342
20°	290322
25°	247369
30°	189371
35°	133783
40°	78974
45°	32062
50°	11627
55°	6477
60°	3715
65°	2042
70°	2140
75°	1689
80°	1762
85°	1504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 32062 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.8	9.5
10°-20°	772.5	27.3
20°-30°	926.8	32.8
30°-40°	622.8	22.0
40°-50°	186.5	6.6
50°-60°	32.9	1.2
60°-70°	9.4	0.3
70°-80°	4.6	0.2
80°-90°	1.5	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°	1967.1	69.6
0°-40°	2589.9	91.7
0°-60°	2809.3	99.5
0°-90°	2824.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2781	
5°	2773	268
15°	2788	772
25°	2052	927
35°	1003	623
45°	208	186
55°	34	33
65°	8	9
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2781.1
2.5°	2792.9
5°	2772.8
7.5°	2814.6
10°	2837.6
12.5°	2832.0
15°	2787.8
17.5°	2679.5
20°	2496.9
22.5°	2281.9
25°	2051.9
27.5°	1792.3
30°	1501.0
32.5°	1237.0
35°	1003.0
37.5°	771.8
40°	553.7
42.5°	361.6
45°	207.5
47.5°	109.9
50°	68.4
52.5°	47.4
55°	34.0
57.5°	24.5
60°	17.0
62.5°	11.1
65°	7.9
67.5°	7.1
70°	6.7
72.5°	5.1
75°	4.0
77.5°	3.6
80°	2.8
82.5°	2.0
85°	1.2
87.5°	0.8
90°	0.0



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— 0°-180°







(END OF REPORT)