

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: P784829

Luminaire Tested: LER4DD40BD010-EC4DR7040509024-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784829
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-EC4DR7040509024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3253.9 lumens
Efficiency: N/A
Efficacy: 92.4 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

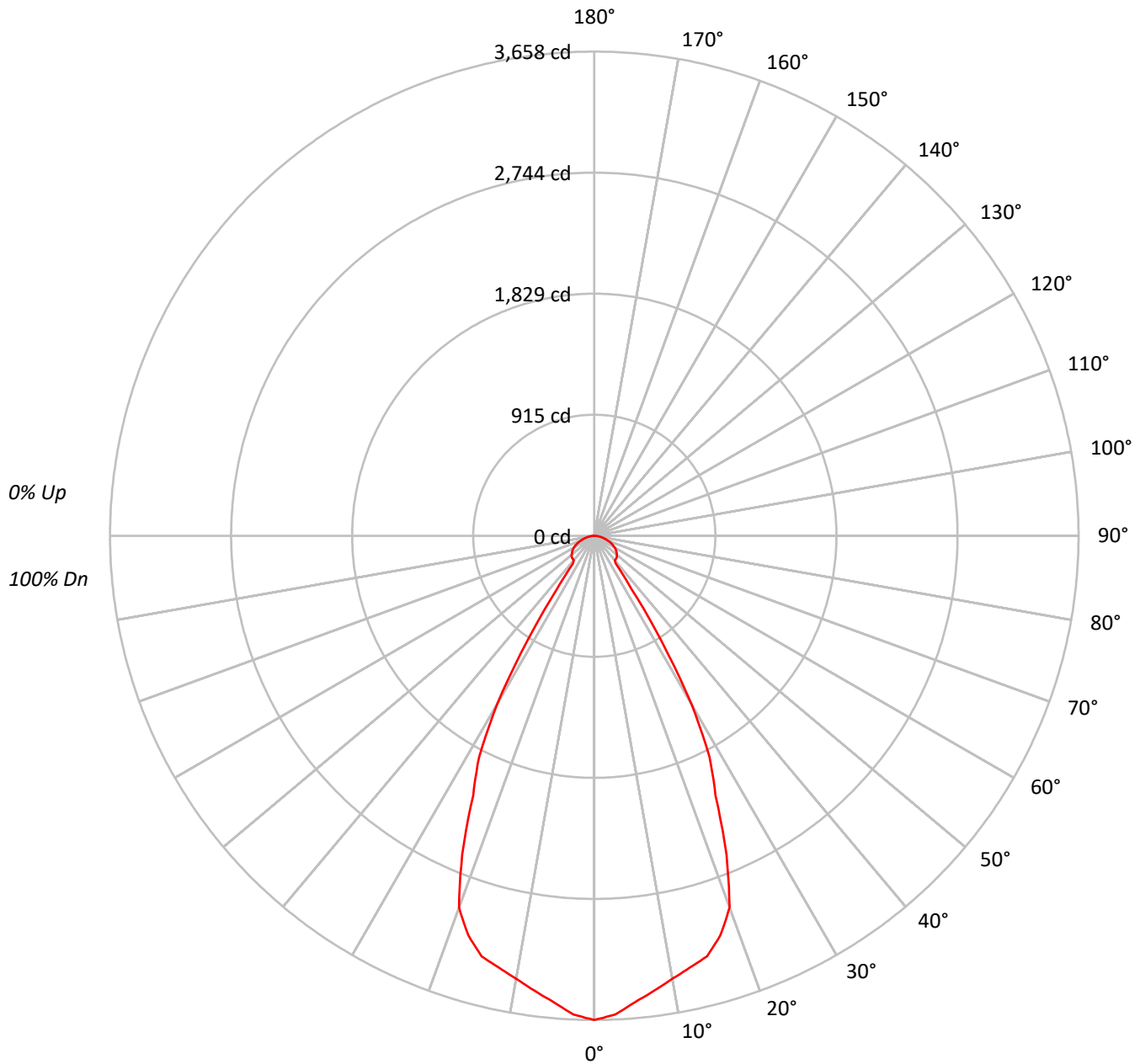


Downlight

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	399709
5°	387833
10°	377029
15°	372081
20°	347447
25°	261016
30°	184514
35°	65358
40°	34374
45°	36605
50°	37905
55°	38612
60°	38853
65°	38030
70°	35907
75°	33266
80°	29510
85°	23944

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 38860 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	10.3
10°-20°	914.9	28.1
20°-30°	1007.6	31.0
30°-40°	385.0	11.8
40°-50°	181.8	5.6
50°-60°	180.7	5.6
60°-70°	144.7	4.4
70°-80°	83.2	2.6
80°-90°	22.6	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°	2256.0	69.3
0°-40°	2641.0	81.2
0°-60°	3003.4	92.3
0°-90°	3253.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3253.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3658	
5°	3536	334
15°	3289	915
25°	2165	1008
35°	490	385
45°	237	182
55°	203	181
65°	147	145
75°	79	83
85°	19	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3658.3
2.5°	3620.1
5°	3536.1
7.5°	3466.0
10°	3398.3
12.5°	3340.9
15°	3289.4
17.5°	3164.8
20°	2988.2
22.5°	2607.0
25°	2165.1
27.5°	1884.8
30°	1462.5
32.5°	944.7
35°	490.0
37.5°	264.7
40°	241.0
42.5°	239.2
45°	236.9
47.5°	231.7
50°	223.0
52.5°	213.2
55°	202.7
57.5°	191.1
60°	177.8
62.5°	162.8
65°	147.1
67.5°	129.7
70°	112.4
72.5°	95.0
75°	78.8
77.5°	62.0
80°	46.9
82.5°	33.0
85°	19.1
87.5°	7.5
90°	0.0



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— 0°-180°







(END OF REPORT)