

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: P784839

Luminaire Tested: LER4DD40BD010-EC4DR7040509030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784839
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-EC4DR7040509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2966.1 lumens
Efficiency: N/A
Efficacy: 84.3 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

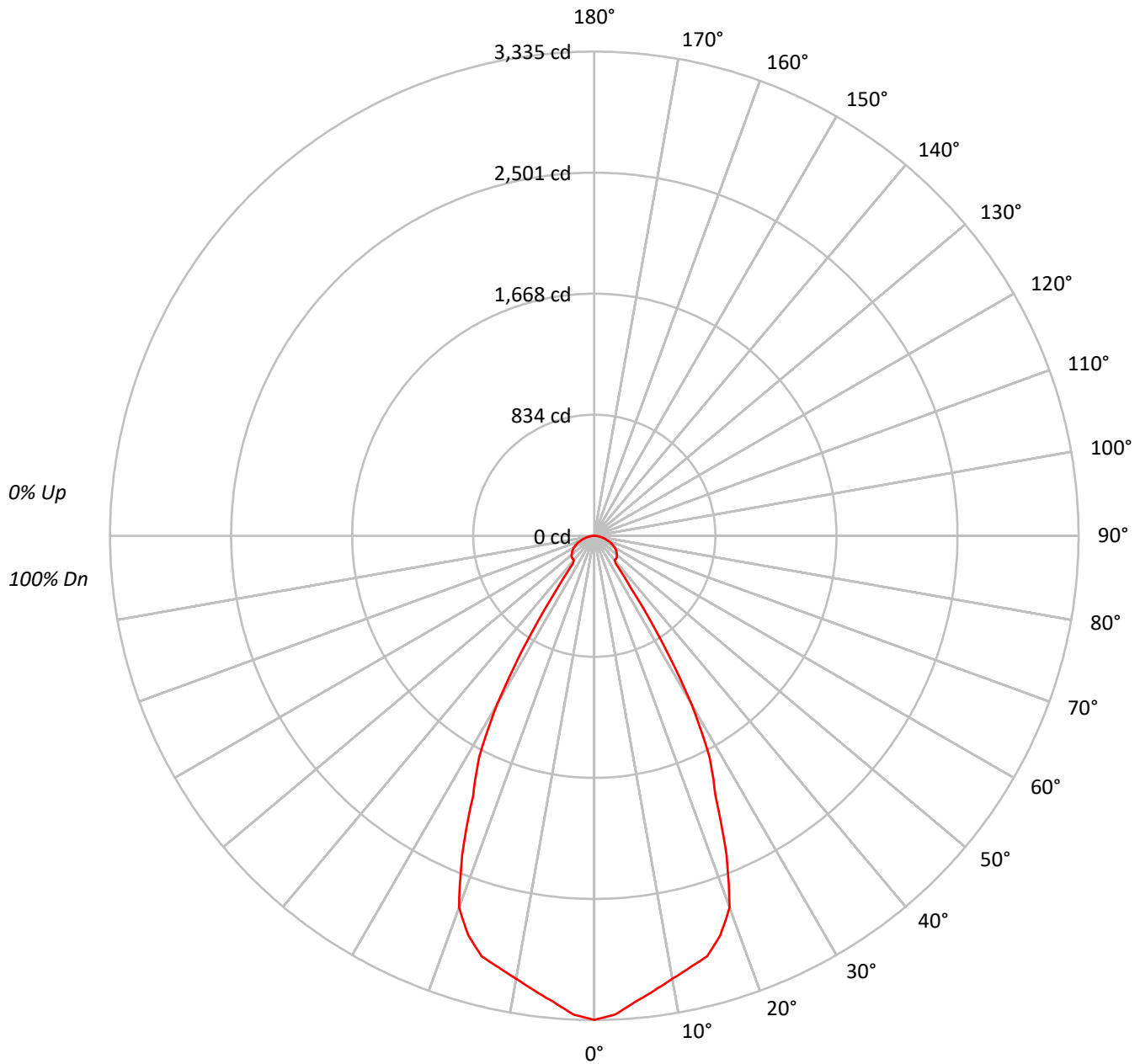


Downlight

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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°	364352
5°	353525
10°	343678
15°	339164
20°	316716
25°	237929
30°	168201
35°	59582
40°	31322
45°	33360
50°	34557
55°	35203
60°	35422
65°	34669
70°	32712
75°	30310
80°	26930
85°	21813

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 35424 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.0	10.3
10°-20°	833.9	28.1
20°-30°	918.5	31.0
30°-40°	350.9	11.8
40°-50°	165.7	5.6
50°-60°	164.7	5.6
60°-70°	131.9	4.4
70°-80°	75.8	2.6
80°-90°	20.6	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°	2056.4	69.3
0°-40°	2407.4	81.2
0°-60°	2737.8	92.3
0°-90°	2966.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2966.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3335	
5°	3223	304
15°	2998	834
25°	1974	918
35°	447	351
45°	216	166
55°	185	165
65°	134	132
75°	72	76
85°	17	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3334.7
2.5°	3299.9
5°	3223.3
7.5°	3159.4
10°	3097.7
12.5°	3045.4
15°	2998.4
17.5°	2884.9
20°	2723.9
22.5°	2376.4
25°	1973.6
27.5°	1718.0
30°	1333.2
32.5°	861.1
35°	446.7
37.5°	241.3
40°	219.6
42.5°	218.1
45°	215.9
47.5°	211.2
50°	203.3
52.5°	194.3
55°	184.8
57.5°	174.2
60°	162.1
62.5°	148.4
65°	134.1
67.5°	118.3
70°	102.4
72.5°	86.6
75°	71.8
77.5°	56.5
80°	42.8
82.5°	30.1
85°	17.4
87.5°	6.9
90°	0.0



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— 0°-180°







(END OF REPORT)