

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: P784847

Luminaire Tested: LER4DD40BD010-EC4DR7040509040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P784847
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-EC4DR7040509040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3137.5 lumens
Efficiency: N/A
Efficacy: 89.1 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 (A_{in}): 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

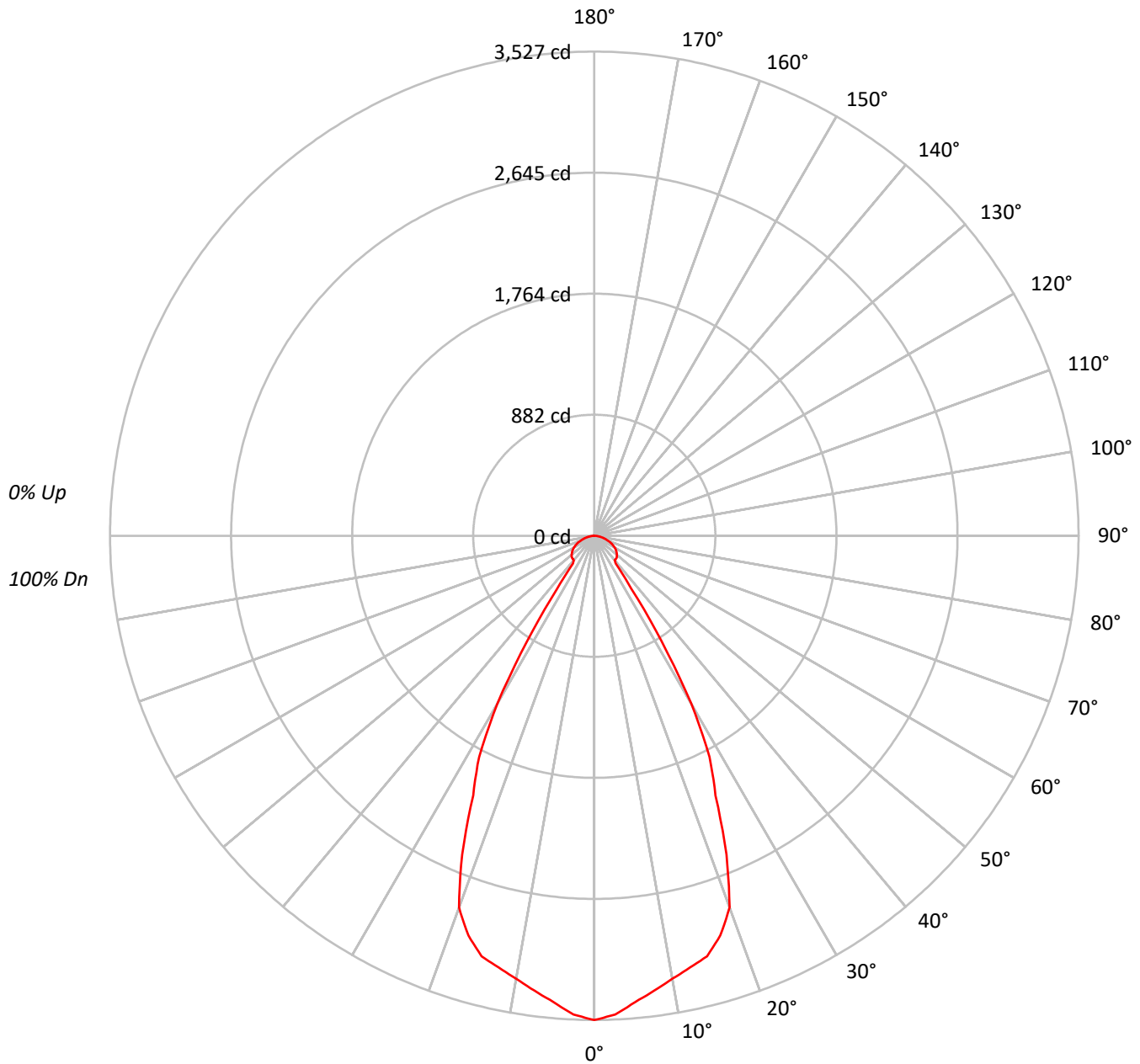


Downlight

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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°	385406
5°	373958
10°	363527
15°	358756
20°	335005
25°	251673
30°	177916
35°	63023
40°	33133
45°	35292
50°	36546
55°	37241
60°	37476
65°	36686
70°	34597
75°	32083
80°	28440
85°	23067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 37478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	10.3
10°-20°	882.1	28.1
20°-30°	971.5	31.0
30°-40°	371.2	11.8
40°-50°	175.3	5.6
50°-60°	174.3	5.6
60°-70°	139.5	4.4
70°-80°	80.2	2.6
80°-90°	21.8	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°	2175.2	69.3
0°-40°	2546.4	81.2
0°-60°	2896.0	92.3
0°-90°	3137.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3137.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3527	
5°	3410	322
15°	3172	882
25°	2088	972
35°	472	371
45°	228	175
55°	196	174
65°	142	140
75°	76	80
85°	18	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3527.4
2.5°	3490.5
5°	3409.6
7.5°	3342.0
10°	3276.6
12.5°	3221.4
15°	3171.6
17.5°	3051.6
20°	2881.2
22.5°	2513.7
25°	2087.6
27.5°	1817.3
30°	1410.2
32.5°	910.9
35°	472.5
37.5°	255.2
40°	232.3
42.5°	230.7
45°	228.4
47.5°	223.4
50°	215.0
52.5°	205.5
55°	195.5
57.5°	184.3
60°	171.5
62.5°	156.9
65°	141.9
67.5°	125.1
70°	108.3
72.5°	91.6
75°	76.0
77.5°	59.8
80°	45.2
82.5°	31.8
85°	18.4
87.5°	7.3
90°	0.0



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— 0°-180°







(END OF REPORT)