

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: P785308

Luminaire Tested: LER4DD50D010-EC4DR7040509024-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785308
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: LER4DD50D010-EC4DR7040509024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2435.4 lumens
Efficiency: N/A
Efficacy: 51.8 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): 47
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

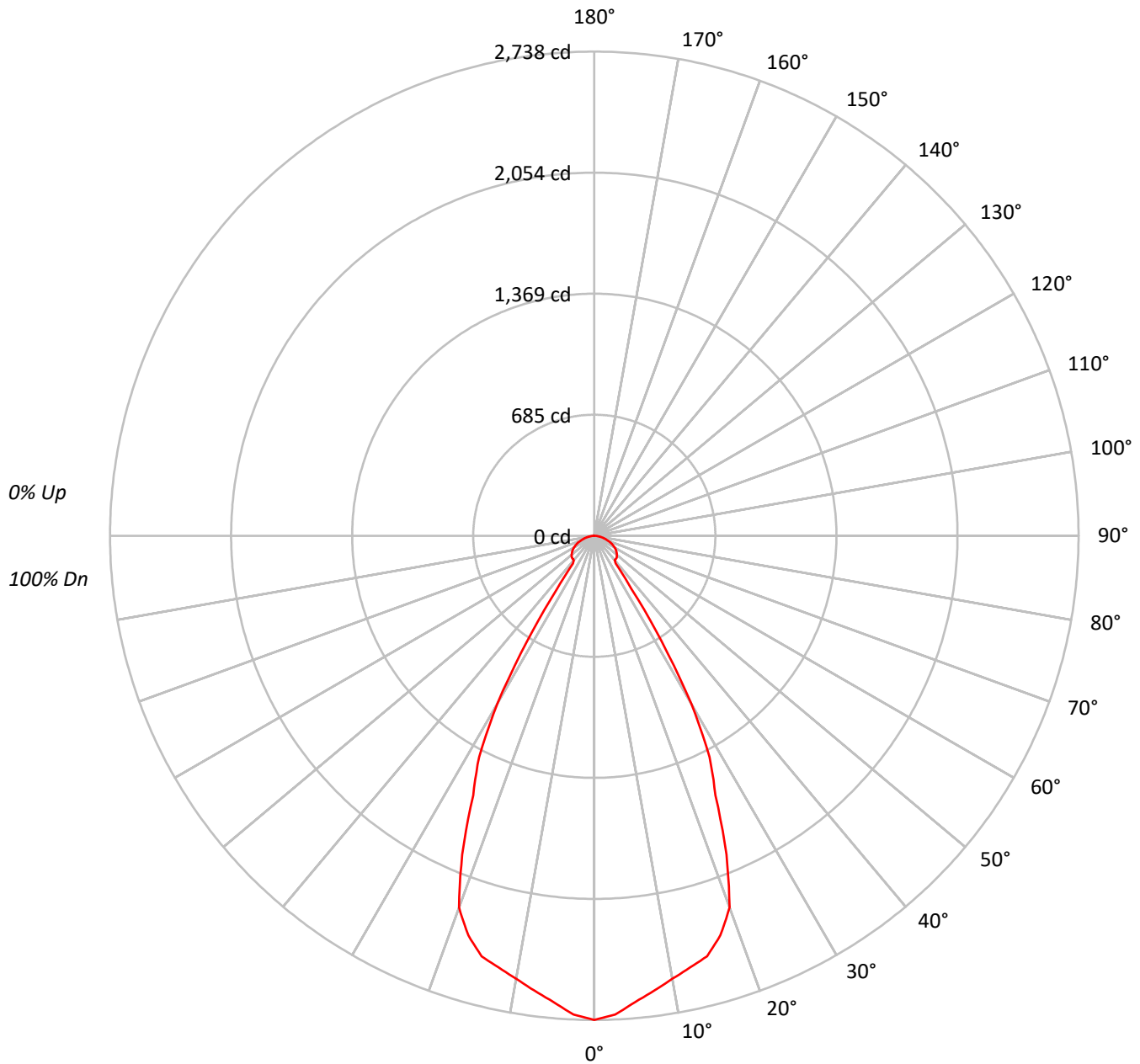


Downlight

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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°	299178
5°	290285
10°	282192
15°	278489
20°	260056
25°	195361
30°	138111
35°	48925
40°	25716
45°	27396
50°	28370
55°	28897
60°	29085
65°	28464
70°	26866
75°	24907
80°	22085
85°	17927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 29100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	10.3
10°-20°	684.8	28.1
20°-30°	754.2	31.0
30°-40°	288.1	11.8
40°-50°	136.0	5.6
50°-60°	135.3	5.6
60°-70°	108.3	4.4
70°-80°	62.3	2.6
80°-90°	16.9	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°	1688.5	69.3
0°-40°	1976.7	81.2
0°-60°	2248.0	92.3
0°-90°	2435.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2738	
5°	2647	250
15°	2462	685
25°	1620	754
35°	367	288
45°	177	136
55°	152	135
65°	110	108
75°	59	62
85°	14	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2738.2
2.5°	2709.6
5°	2646.7
7.5°	2594.2
10°	2543.5
12.5°	2500.6
15°	2462.0
17.5°	2368.8
20°	2236.6
22.5°	1951.3
25°	1620.5
27.5°	1410.7
30°	1094.7
32.5°	707.1
35°	366.8
37.5°	198.1
40°	180.3
42.5°	179.0
45°	177.3
47.5°	173.4
50°	166.9
52.5°	159.5
55°	151.7
57.5°	143.1
60°	133.1
62.5°	121.8
65°	110.1
67.5°	97.1
70°	84.1
72.5°	71.1
75°	59.0
77.5°	46.4
80°	35.1
82.5°	24.7
85°	14.3
87.5°	5.6
90°	0.0



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— 0°-180°







(END OF REPORT)