

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: P785316

Luminaire Tested: LER4DD50D010-EC4DR7040509030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785316
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-EC4DR7040509030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2842.3 lumens
Efficiency: N/A
Efficacy: 60.5 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 (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

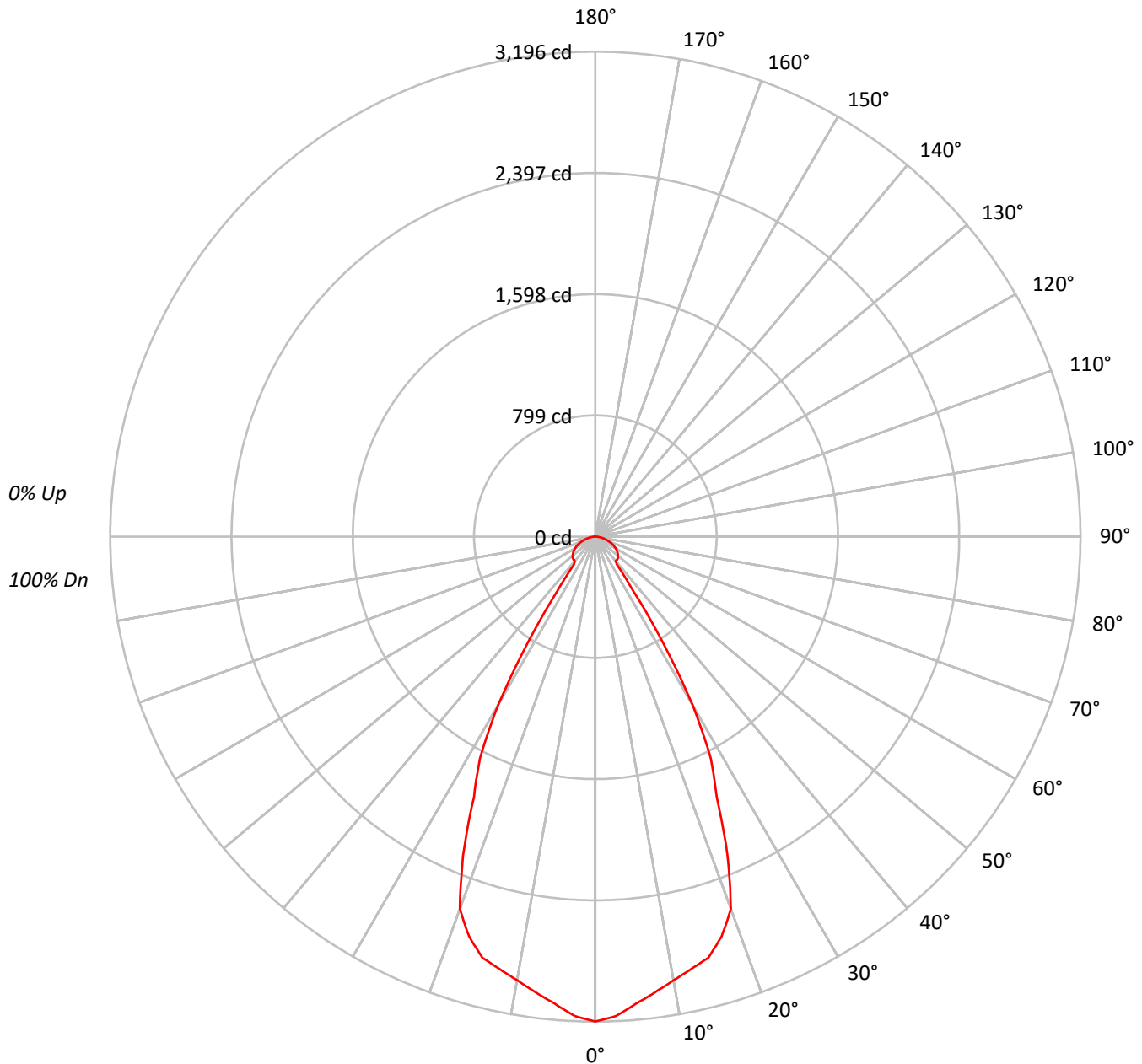


Downlight

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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°	349143
5°	338763
10°	329322
15°	325002
20°	303484
25°	227995
30°	161174
35°	57088
40°	30024
45°	31970
50°	33112
55°	33736
60°	33936
65°	33221
70°	31371
75°	29044
80°	25798
85°	20936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 33960 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.3	10.2
10°-20°	799.1	28.1
20°-30°	880.1	31.0
30°-40°	336.3	11.8
40°-50°	158.8	5.6
50°-60°	157.9	5.6
60°-70°	126.4	4.4
70°-80°	72.6	2.6
80°-90°	19.7	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°	1970.6	69.3
0°-40°	2306.8	81.2
0°-60°	2623.5	92.3
0°-90°	2842.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3196	
5°	3089	291
15°	2873	799
25°	1891	880
35°	428	336
45°	207	159
55°	177	158
65°	128	126
75°	69	73
85°	17	20
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3195.5
2.5°	3162.1
5°	3088.7
7.5°	3027.5
10°	2968.3
12.5°	2918.2
15°	2873.2
17.5°	2764.4
20°	2610.1
22.5°	2277.2
25°	1891.2
27.5°	1646.3
30°	1277.5
32.5°	825.2
35°	428.0
37.5°	231.2
40°	210.5
42.5°	209.0
45°	206.9
47.5°	202.4
50°	194.8
52.5°	186.2
55°	177.1
57.5°	167.0
60°	155.3
62.5°	142.2
65°	128.5
67.5°	113.3
70°	98.2
72.5°	83.0
75°	68.8
77.5°	54.1
80°	41.0
82.5°	28.8
85°	16.7
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)