

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: P785280

Luminaire Tested: LER4DD50D010-EC4DR6040509050-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR6040509050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4071.4 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
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

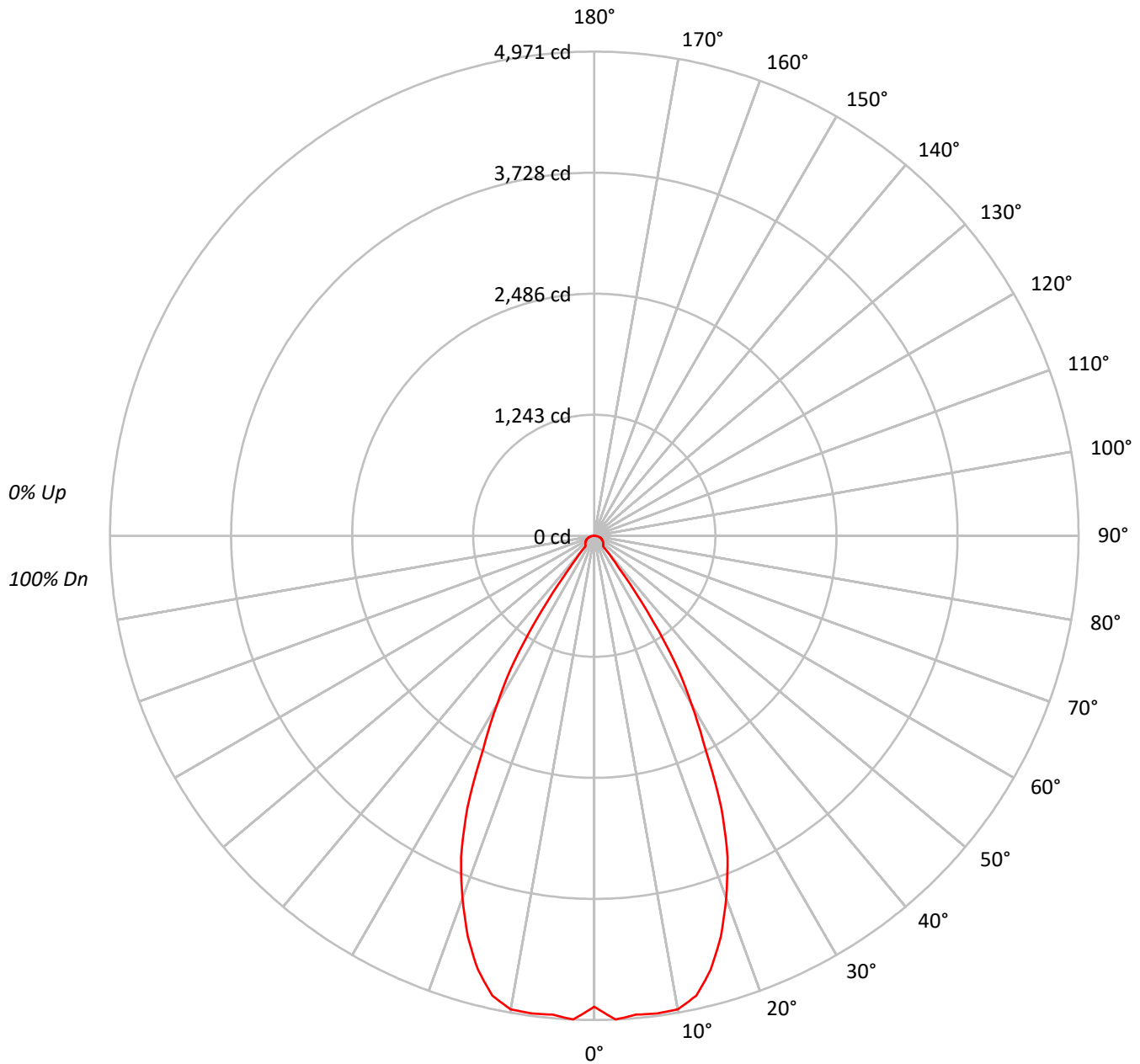


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	108	105		111	108	106	104		104	102	100		100	99	97		97	96	95
2	107	102	98	95		105	101	97	94		97	94	92		94	92	90		92	90	88
3	102	96	90	86		100	94	89	86		91	88	84		89	86	83		87	84	82
4	97	89	84	80		95	88	83	79		86	82	78		84	80	77		82	79	76
5	92	84	78	74		91	83	78	74		81	77	73		80	76	72		78	75	72
6	88	79	73	69		87	78	73	69		77	72	68		75	71	68		74	70	67
7	84	75	69	65		83	74	68	64		73	68	64		72	67	64		71	67	63
8	80	71	65	61		79	70	65	61		69	64	60		68	64	60		67	63	60
9	77	67	61	57		75	67	61	57		66	61	57		65	60	57		64	60	57
10	73	64	58	54		72	63	58	54		62	58	54		62	57	54		61	57	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	528319
5°	541305
10°	547853
15°	521902
20°	460150
25°	372180
30°	251747
35°	126153
40°	20467
45°	20026
50°	20432
55°	20744
60°	21306
65°	21794
70°	22298
75°	22585
80°	21771
85°	18178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 22585 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.7	11.6
10°-20°	1276.2	31.3
20°-30°	1373.1	33.7
30°-40°	596.9	14.7
40°-50°	100.2	2.5
50°-60°	97.5	2.4
60°-70°	83.3	2.0
70°-80°	55.8	1.4
80°-90°	16.7	0.4
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°	3121.0	76.7
0°-40°	3717.9	91.3
0°-60°	3915.6	96.2
0°-90°	4071.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4071.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4835	
5°	4935	472
15°	4614	1276
25°	3087	1373
35°	946	597
45°	130	100
55°	109	97
65°	84	83
75°	54	56
85°	14	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4835.4
2.5°	4971.3
5°	4935.4
7.5°	4946.8
10°	4938.0
12.5°	4836.0
15°	4613.9
17.5°	4315.6
20°	3957.5
22.5°	3574.3
25°	3087.2
27.5°	2469.3
30°	1995.4
32.5°	1538.0
35°	945.8
37.5°	404.6
40°	143.5
42.5°	132.1
45°	129.6
47.5°	125.2
50°	120.2
52.5°	114.5
55°	108.9
57.5°	103.2
60°	97.5
62.5°	91.2
65°	84.3
67.5°	77.4
70°	69.8
72.5°	61.7
75°	53.5
77.5°	44.0
80°	34.6
82.5°	24.5
85°	14.5
87.5°	5.0
90°	0.0



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— 0°-180°







(END OF REPORT)