

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: P785282

Luminaire Tested: LER4DD50D010-EC4DR6040509050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785282
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-EC4DR6040509050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5428.8 lumens
Efficiency: N/A
Efficacy: 115.5 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

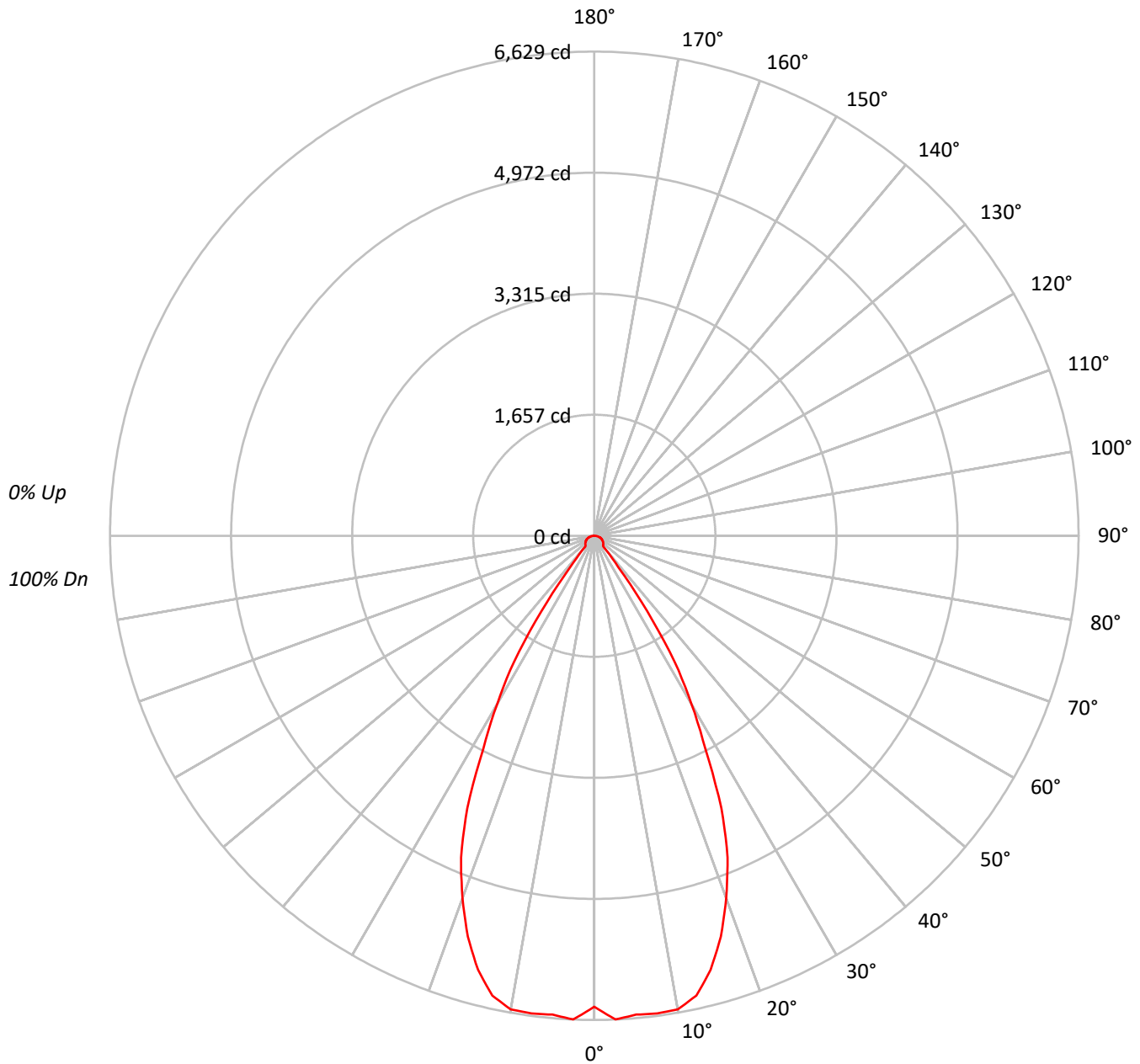


Downlight

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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°	704448
5°	721770
10°	730481
15°	695884
20°	613560
25°	496268
30°	335683
35°	168209
40°	27285
45°	26701
50°	27248
55°	27659
60°	28430
65°	29059
70°	29741
75°	30099
80°	29006
85°	24195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 30099 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.0	11.6
10°-20°	1701.7	31.3
20°-30°	1830.9	33.7
30°-40°	795.8	14.7
40°-50°	133.7	2.5
50°-60°	130.0	2.4
60°-70°	111.2	2.0
70°-80°	74.3	1.4
80°-90°	22.2	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°	4161.5	76.7
0°-40°	4957.4	91.3
0°-60°	5221.0	96.2
0°-90°	5428.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5428.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6447	
5°	6581	629
15°	6152	1702
25°	4116	1831
35°	1261	796
45°	173	134
55°	145	130
65°	112	111
75°	71	74
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6447.4
2.5°	6628.6
5°	6580.8
7.5°	6595.9
10°	6584.1
12.5°	6448.2
15°	6152.0
17.5°	5754.3
20°	5276.9
22.5°	4765.9
25°	4116.5
27.5°	3292.5
30°	2660.7
32.5°	2050.7
35°	1261.1
37.5°	539.5
40°	191.3
42.5°	176.2
45°	172.8
47.5°	167.0
50°	160.3
52.5°	152.7
55°	145.2
57.5°	137.6
60°	130.1
62.5°	121.7
65°	112.4
67.5°	103.2
70°	93.1
72.5°	82.2
75°	71.3
77.5°	58.7
80°	46.1
82.5°	32.7
85°	19.3
87.5°	6.7
90°	0.0



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— 0°-180°







(END OF REPORT)