

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: P785283

Luminaire Tested: LER4DD50D010-EC4DR6040509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785283
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-EC4DR6040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4682.2 lumens
Efficiency: N/A
Efficacy: 99.6 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

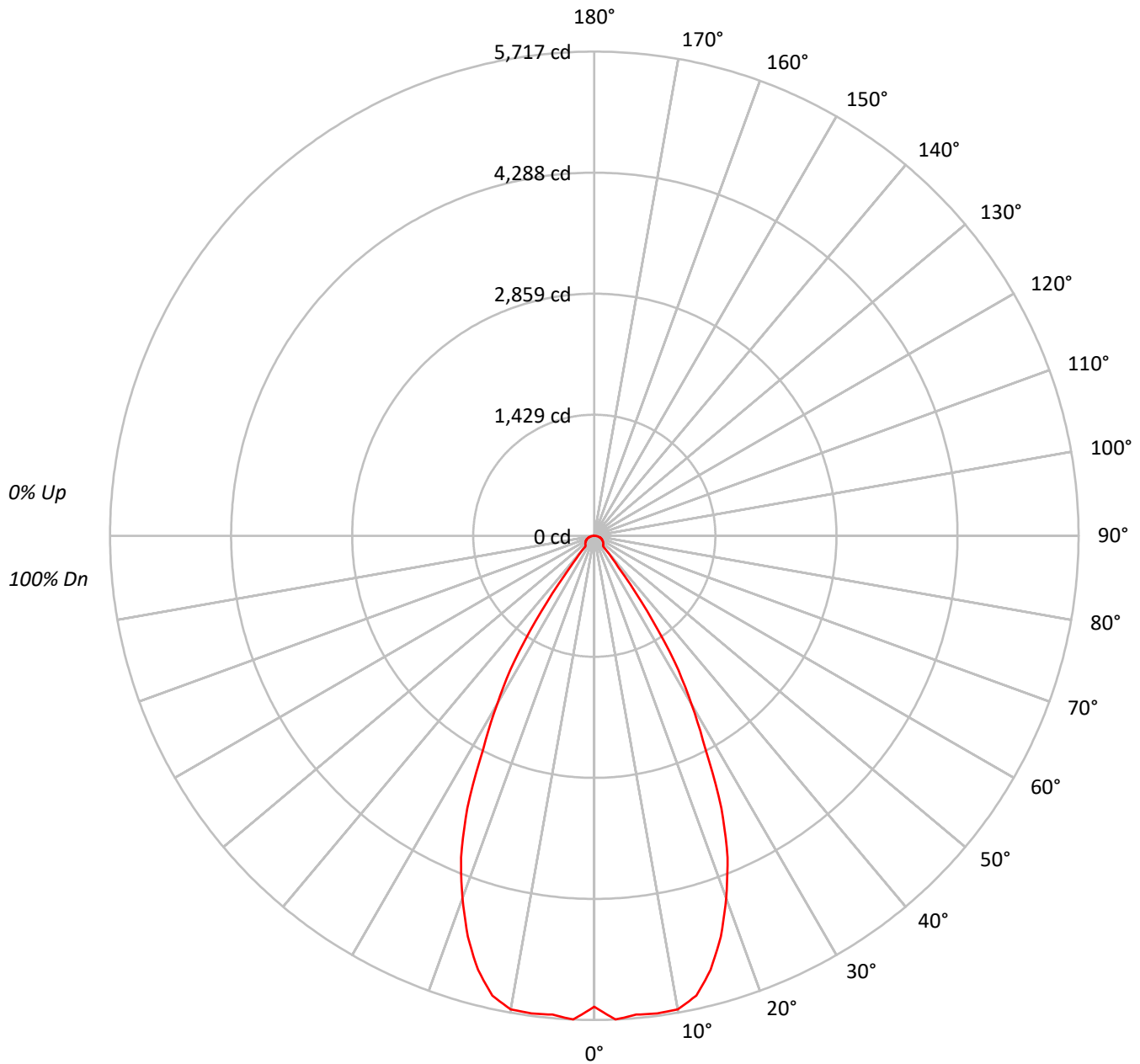


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	607577
5°	622511
10°	630031
15°	600188
20°	529181
25°	428022
30°	289520
35°	145080
40°	23534
45°	23039
50°	23491
55°	23849
60°	24518
65°	25078
70°	25652
75°	25962
80°	25042
85°	20810

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 25962 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.5	11.6
10°-20°	1467.7	31.3
20°-30°	1579.1	33.7
30°-40°	686.4	14.7
40°-50°	115.3	2.5
50°-60°	112.1	2.4
60°-70°	95.9	2.0
70°-80°	64.2	1.4
80°-90°	19.2	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°	3589.2	76.7
0°-40°	4275.6	91.3
0°-60°	4503.0	96.2
0°-90°	4682.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4682.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5561	
5°	5676	542
15°	5306	1468
25°	3550	1579
35°	1088	686
45°	149	115
55°	125	112
65°	97	96
75°	62	64
85°	17	19
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5560.8
2.5°	5717.1
5°	5675.8
7.5°	5688.9
10°	5678.7
12.5°	5561.5
15°	5306.0
17.5°	4963.0
20°	4551.2
22.5°	4110.5
25°	3550.4
27.5°	2839.7
30°	2294.8
32.5°	1768.7
35°	1087.7
37.5°	465.3
40°	165.0
42.5°	152.0
45°	149.1
47.5°	144.0
50°	138.2
52.5°	131.7
55°	125.2
57.5°	118.7
60°	112.2
62.5°	104.9
65°	97.0
67.5°	89.0
70°	80.3
72.5°	70.9
75°	61.5
77.5°	50.7
80°	39.8
82.5°	28.2
85°	16.6
87.5°	5.8
90°	0.0



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— 0°-180°







(END OF REPORT)