

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: P781831

Luminaire Tested: LER4D50D010-EC4DR5540509024-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR5540509024-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.1 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
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

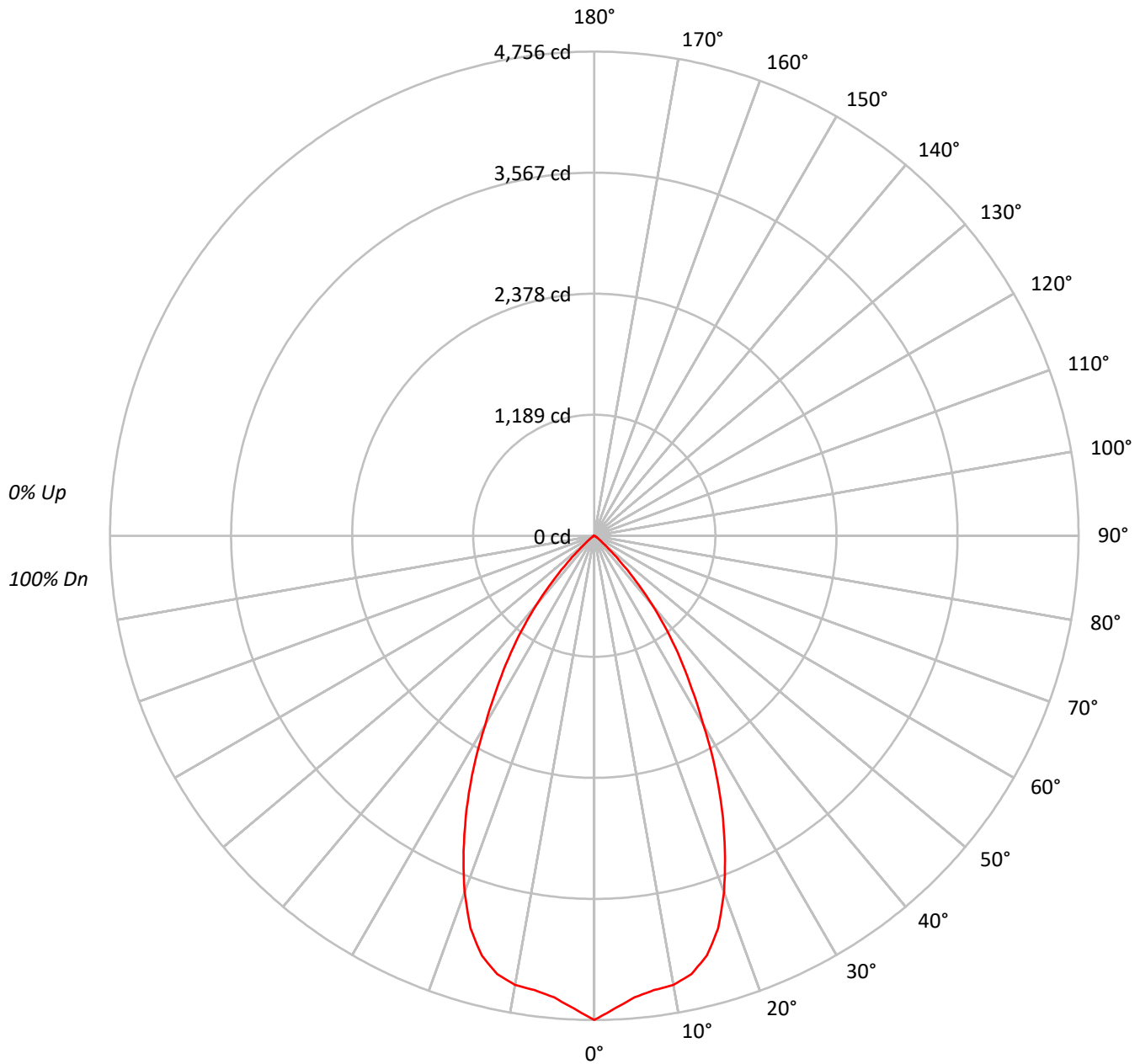


Downlight

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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					0
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	114	111	108	106	111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96	106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87	100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80	95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74	91	83	77	73		81	76	73		79	75	72		78	74	71
6	88	79	73	68	86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	64	82	73	67	63		72	67	63		71	66	63		70	65	62
8	79	69	63	59	78	69	63	59		68	63	59		67	62	59		66	62	58
9	75	66	60	56	74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52	71	61	56	52		61	56	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	519611
5°	498981
10°	497095
15°	482820
20°	432919
25°	357786
30°	270255
35°	195966
40°	125414
45°	57280
50°	18732
55°	8077
60°	3474
65°	465
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 57280 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	10.2
10°-20°	1181.5	27.9
20°-30°	1346.4	31.7
30°-40°	916.6	21.6
40°-50°	315.9	7.4
50°-60°	43.6	1.0
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	2960.8	69.8
0°-40°	3877.4	91.4
0°-60°	4236.9	99.9
0°-90°	4241.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4756	
5°	4550	433
15°	4268	1181
25°	2968	1346
35°	1469	917
45°	371	316
55°	42	44
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4755.7
2.5°	4646.7
5°	4549.5
7.5°	4501.7
10°	4480.5
12.5°	4409.8
15°	4268.4
17.5°	4043.8
20°	3723.3
22.5°	3353.2
25°	2967.8
27.5°	2566.4
30°	2142.1
32.5°	1782.7
35°	1469.2
37.5°	1171.0
40°	879.3
42.5°	609.3
45°	370.7
47.5°	199.8
50°	110.2
52.5°	65.4
55°	42.4
57.5°	27.1
60°	15.9
62.5°	7.1
65°	1.8
67.5°	0.6
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)