

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: P780355

Luminaire Tested: LER4D20D010-EC4DR6520359035-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D20D010-EC4DR6520359035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.1 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



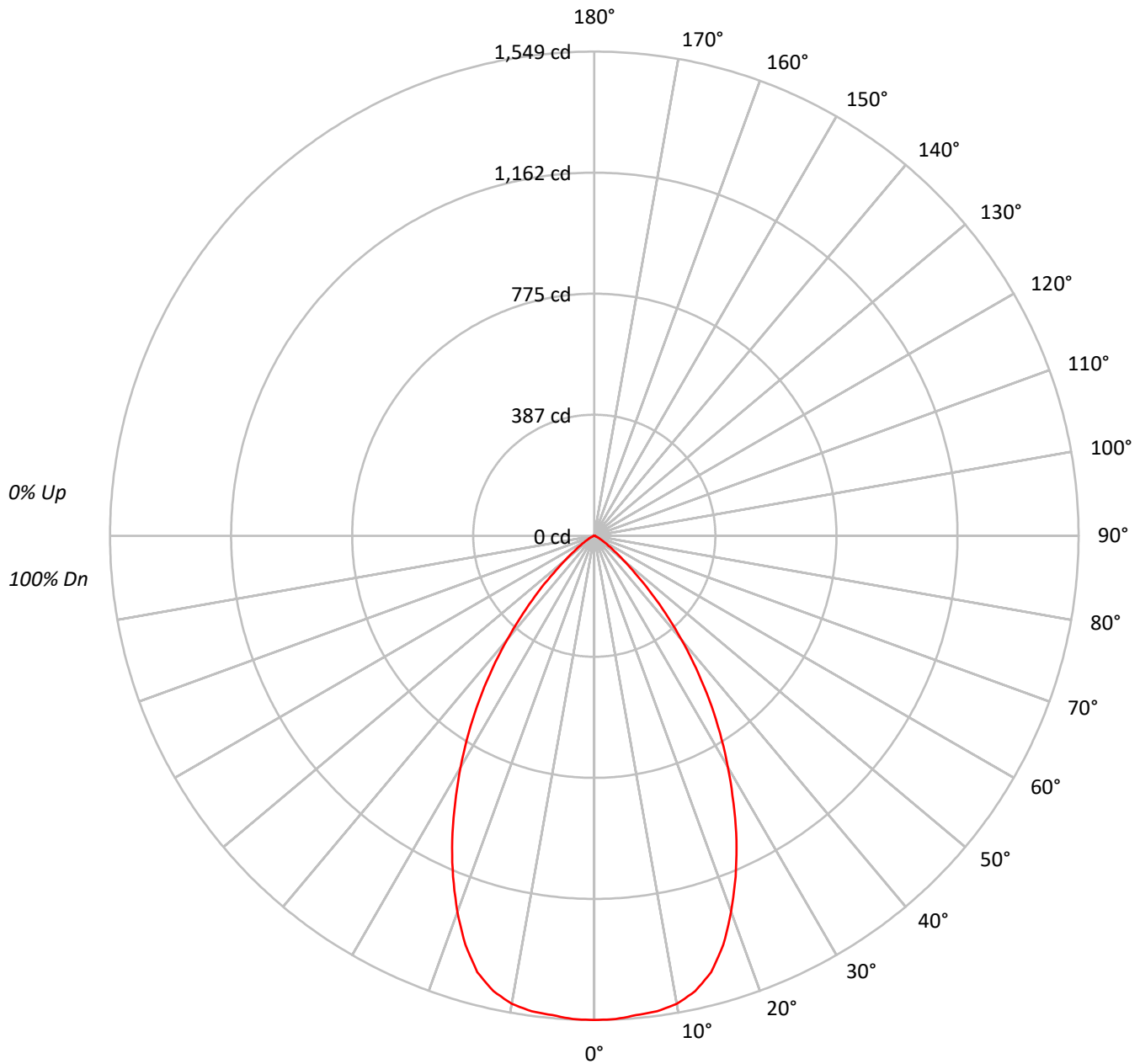
Downlight



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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	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	90473
5°	90244
10°	90167
15°	87389
20°	79555
25°	69326
30°	57660
35°	45688
40°	32974
45°	20831
50°	10858
55°	5773
60°	3037
65°	1672
70°	700
75°	767
80°	538
85°	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20831 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	8.6
10°-20°	401.2	23.5
20°-30°	490.4	28.7
30°-40°	397.8	23.3
40°-50°	198.3	11.6
50°-60°	55.3	3.2
60°-70°	12.6	0.7
70°-80°	3.3	0.2
80°-90°	0.8	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°	1038.0	60.8
0°-40°	1435.9	84.2
0°-60°	1689.4	99.0
0°-90°	1706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1549	
5°	1539	146
15°	1445	401
25°	1076	490
35°	641	398
45°	252	198
55°	57	55
65°	12	13
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1549.1
2.5°	1548.0
5°	1539.3
7.5°	1534.3
10°	1520.4
12.5°	1492.2
15°	1445.3
17.5°	1372.0
20°	1280.0
22.5°	1180.8
25°	1075.8
27.5°	963.6
30°	855.0
32.5°	747.8
35°	640.8
37.5°	534.0
40°	432.5
42.5°	337.4
45°	252.2
47.5°	175.7
50°	119.5
52.5°	82.4
55°	56.7
57.5°	38.2
60°	26.0
62.5°	18.0
65°	12.1
67.5°	6.1
70°	4.1
72.5°	3.9
75°	3.4
77.5°	2.3
80°	1.6
82.5°	1.1
85°	0.7
87.5°	0.5
90°	0.0



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— 0°-180°







(END OF REPORT)