

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: P780348

Luminaire Tested: LER4D20D010-EC4DR6520359030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780348
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-EC4DR6520359030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1579.2 lumens
Efficiency: N/A
Efficacy: 68.4 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



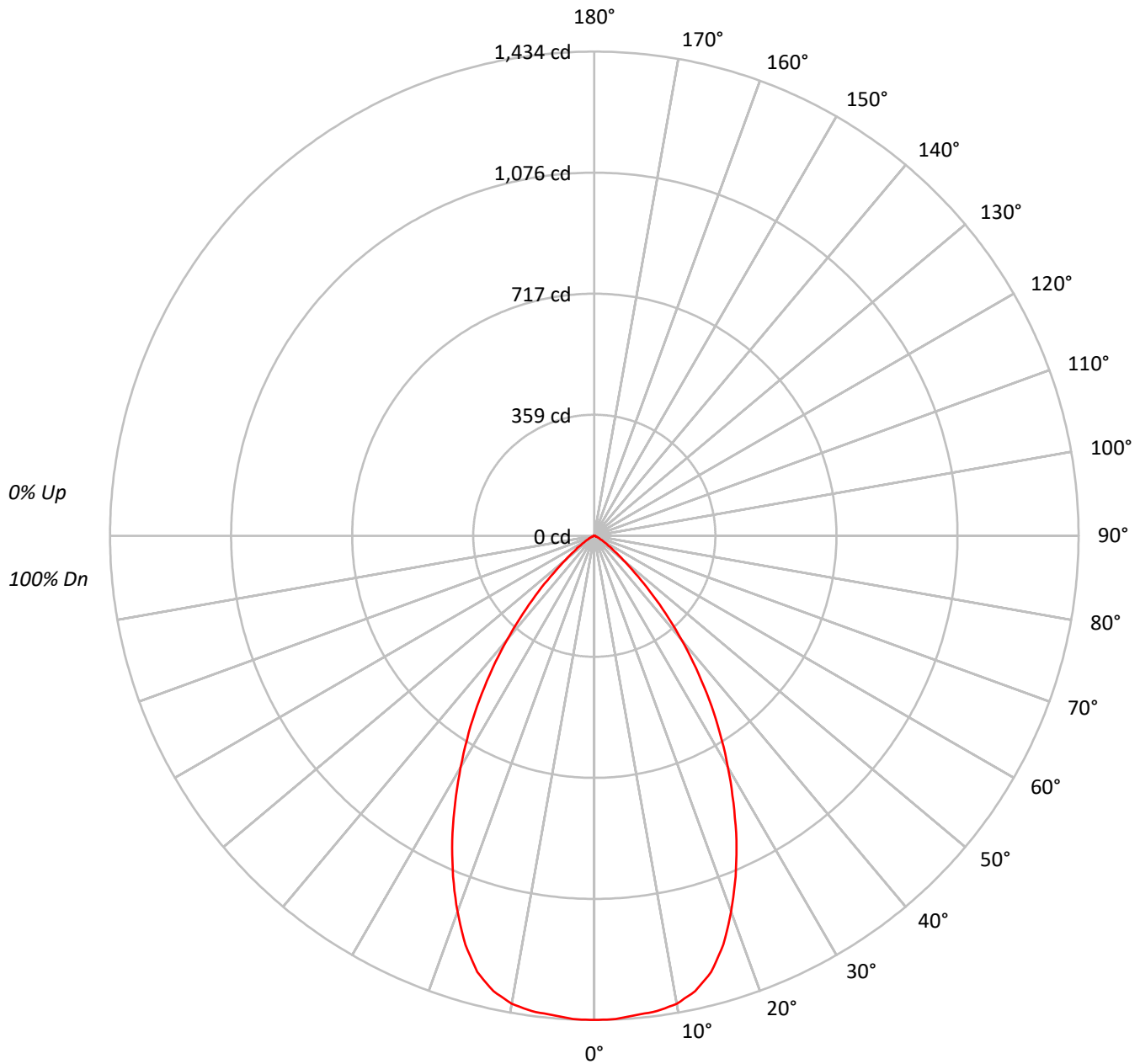
Downlight



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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°	83739
5°	83532
10°	83460
15°	80883
20°	73632
25°	64171
30°	53371
35°	42287
40°	30519
45°	19286
50°	10049
55°	5346
60°	2803
65°	1548
70°	649
75°	722
80°	505
85°	402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19286 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	8.6
10°-20°	371.3	23.5
20°-30°	453.9	28.7
30°-40°	368.2	23.3
40°-50°	183.5	11.6
50°-60°	51.2	3.2
60°-70°	11.7	0.7
70°-80°	3.0	0.2
80°-90°	0.7	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°	960.8	60.8
0°-40°	1329.0	84.2
0°-60°	1563.7	99.0
0°-90°	1579.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1579.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1434	
5°	1425	136
15°	1338	371
25°	996	454
35°	593	368
45°	234	184
55°	52	51
65°	11	12
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1433.8
2.5°	1432.8
5°	1424.8
7.5°	1420.1
10°	1407.3
12.5°	1381.2
15°	1337.7
17.5°	1269.9
20°	1184.7
22.5°	1092.9
25°	995.8
27.5°	891.9
30°	791.4
32.5°	692.1
35°	593.1
37.5°	494.3
40°	400.3
42.5°	312.3
45°	233.5
47.5°	162.7
50°	110.6
52.5°	76.3
55°	52.5
57.5°	35.4
60°	24.0
62.5°	16.7
65°	11.2
67.5°	5.7
70°	3.8
72.5°	3.6
75°	3.2
77.5°	2.1
80°	1.5
82.5°	1.0
85°	0.6
87.5°	0.4
90°	0.0



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— 0°-180°







(END OF REPORT)