

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P578008

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-27 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-55-D010 FEU6C-X-90-27 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

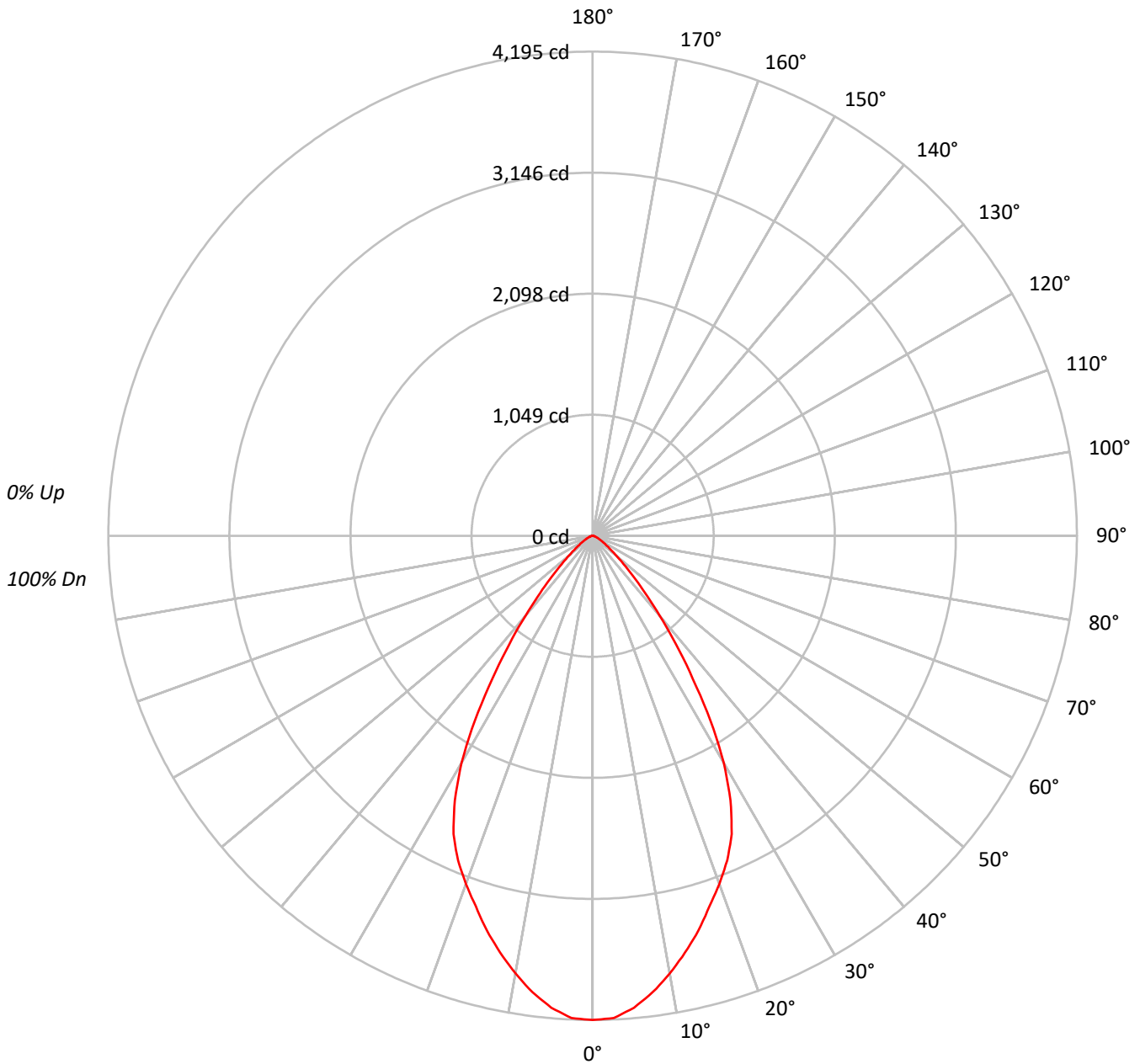
Lumens per Lamp: N/A
Luminaire Lumens: 4239.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78				78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72				72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66				66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61				61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57				57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53				53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49				49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46				46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	229976
5°	225863
10°	214319
15°	200977
20°	187173
25°	172462
30°	143699
35°	101281
40°	64550
45°	38492
50°	22720
55°	14451
60°	9955
65°	7069
70°	4857
75°	3855
80°	1894
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.6	9.0
10°-20°	992.3	23.4
20°-30°	1285.8	30.3
30°-40°	954.6	22.5
40°-50°	403.0	9.5
50°-60°	143.0	3.4
60°-70°	55.2	1.3
70°-80°	19.1	0.5
80°-90°	2.4	0.1
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°	2661.6	62.8
0°-40°	3616.2	85.3
0°-60°	4162.2	98.2
0°-90°	4239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4239.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4195	
5°	4104	384
15°	3541	992
25°	2851	1286
35°	1513	955
45°	496	403
55°	151	143
65°	54	55
75°	18	19
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4195.1
2.5°	4183.0
5°	4104.4
7.5°	3989.2
10°	3850.1
12.5°	3698.6
15°	3541.2
17.5°	3365.8
20°	3208.4
22.5°	3044.9
25°	2851.2
27.5°	2584.8
30°	2270.1
32.5°	1900.7
35°	1513.4
37.5°	1186.5
40°	902.0
42.5°	671.9
45°	496.5
47.5°	363.2
50°	266.4
52.5°	199.7
55°	151.2
57.5°	114.9
60°	90.8
62.5°	66.7
65°	54.5
67.5°	42.3
70°	30.3
72.5°	24.1
75°	18.2
77.5°	12.2
80°	6.0
82.5°	6.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)