

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: P580048

Luminaire Tested: **FLD6C-90-D010 FEU6C-X-90-50 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P580048
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-90-D010 FEU6C-X-90-50 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

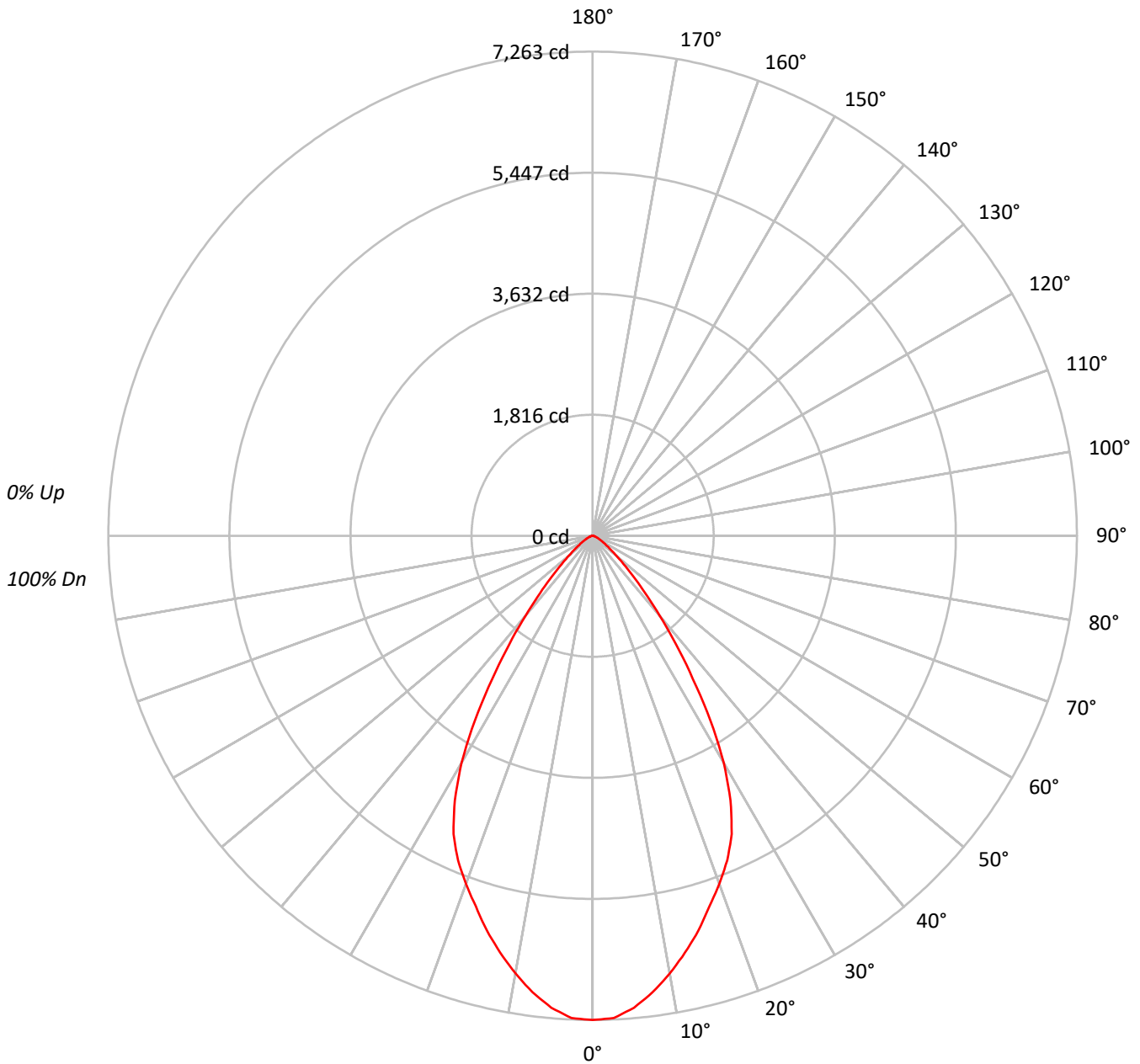
Lumens per Lamp: N/A
Luminaire Lumens: 7338.9 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
Input Voltage (V): NR
Input Current (A_{in}): 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	88	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°	398164
5°	391035
10°	371057
15°	347953
20°	324052
25°	298578
30°	248785
35°	175345
40°	111752
45°	66643
50°	39333
55°	25022
60°	17235
65°	12232
70°	8415
75°	6651
80°	3252
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.1	9.0
10°-20°	1718.0	23.4
20°-30°	2226.0	30.3
30°-40°	1652.6	22.5
40°-50°	697.7	9.5
50°-60°	247.7	3.4
60°-70°	95.6	1.3
70°-80°	33.1	0.5
80°-90°	4.2	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°	4608.1	62.8
0°-40°	6260.7	85.3
0°-60°	7206.1	98.2
0°-90°	7338.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7338.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7263	
5°	7106	664
15°	6131	1718
25°	4936	2226
35°	2620	1653
45°	860	698
55°	262	248
65°	94	96
75°	31	33
85°	0	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7263.1
2.5°	7242.0
5°	7105.9
7.5°	6906.5
10°	6665.8
12.5°	6403.5
15°	6130.9
17.5°	5827.3
20°	5554.7
22.5°	5271.7
25°	4936.2
27.5°	4475.0
30°	3930.2
32.5°	3290.7
35°	2620.1
37.5°	2054.2
40°	1561.6
42.5°	1163.2
45°	859.6
47.5°	628.8
50°	461.2
52.5°	345.8
55°	261.8
57.5°	199.0
60°	157.2
62.5°	115.4
65°	94.3
67.5°	73.2
70°	52.5
72.5°	41.8
75°	31.4
77.5°	21.1
80°	10.3
82.5°	10.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)