

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: P579248

Luminaire Tested: **FLD6C-75-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-75-D010 FEU6C-X-90-27 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

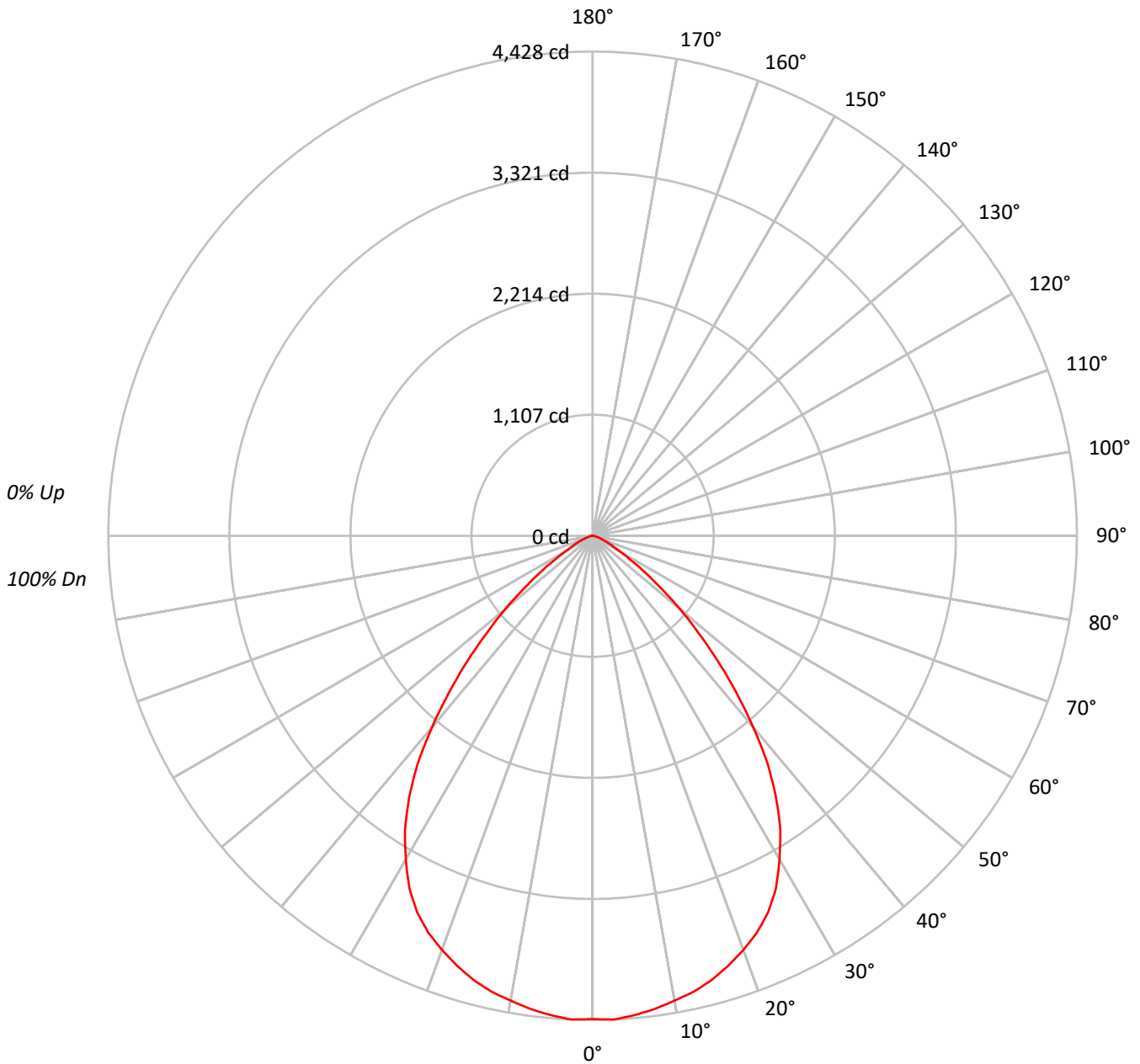
Lumens per Lamp: N/A
Luminaire Lumens: 7165.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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				
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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242256
5°	242174
10°	240310
15°	238696
20°	235063
25°	229689
30°	216267
35°	195723
40°	163435
45°	125230
50°	88688
55°	55922
60°	31544
65°	20482
70°	13368
75°	9828
80°	5904
85°	5850



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	5.8
10°-20°	1184.3	16.5
20°-30°	1736.5	24.2
30°-40°	1807.3	25.2
40°-50°	1250.4	17.5
50°-60°	544.4	7.6
60°-70°	167.0	2.3
70°-80°	50.0	0.7
80°-90°	7.6	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°	3338.3	46.6
0°-40°	5145.6	71.8
0°-60°	6940.3	96.9
0°-90°	7165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7165.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4419	
5°	4401	417
15°	4206	1184
25°	3797	1737
35°	2925	1807
45°	1615	1250
55°	585	544
65°	158	167
75°	46	50
85°	9	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4419.1
2.5°	4428.5
5°	4400.8
7.5°	4363.7
10°	4317.0
12.5°	4270.6
15°	4205.8
17.5°	4122.1
20°	4029.3
22.5°	3927.2
25°	3797.3
27.5°	3630.1
30°	3416.5
32.5°	3193.6
35°	2924.6
37.5°	2627.6
40°	2283.8
42.5°	1940.4
45°	1615.3
47.5°	1308.9
50°	1039.9
52.5°	789.3
55°	585.1
57.5°	417.8
60°	287.7
62.5°	213.6
65°	157.9
67.5°	120.8
70°	83.4
72.5°	65.1
75°	46.4
77.5°	27.7
80°	18.7
82.5°	9.3
85°	9.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)