

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: P576488

Luminaire Tested: **FLD6C-25-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576488
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-25-D010 FEU6C-X-90-50 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

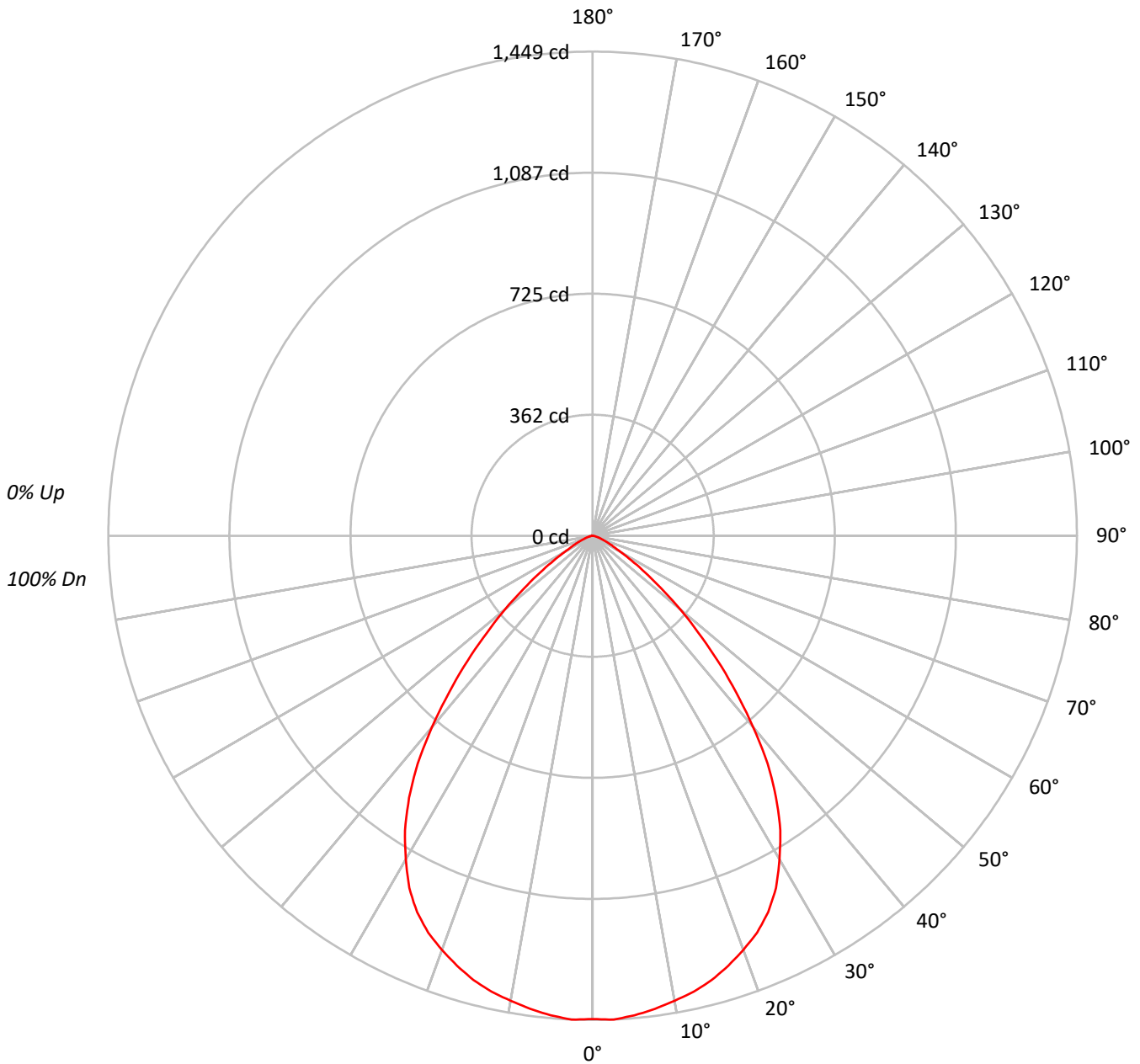
Lumens per Lamp: N/A
Luminaire Lumens: 2345.1 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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

TEST NUMBER: P576488

CATALOG NUMBER: FLD6C-25-D010 FEU6C-X-90-50 F6X-W-X-H

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			
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79286
5°	79259
10°	78650
15°	78122
20°	76931
25°	75174
30°	70783
35°	64059
40°	53493
45°	40989
50°	29031
55°	18303
60°	10328
65°	6706
70°	4376
75°	3219
80°	1926
85°	1950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	5.8
10°-20°	387.6	16.5
20°-30°	568.3	24.2
30°-40°	591.5	25.2
40°-50°	409.3	17.5
50°-60°	178.2	7.6
60°-70°	54.6	2.3
70°-80°	16.4	0.7
80°-90°	2.5	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°	1092.6	46.6
0°-40°	1684.1	71.8
0°-60°	2271.5	96.9
0°-90°	2345.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1446	
5°	1440	137
15°	1376	388
25°	1243	568
35°	957	592
45°	529	409
55°	192	178
65°	52	55
75°	15	16
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1446.3
2.5°	1449.4
5°	1440.3
7.5°	1428.2
10°	1412.9
12.5°	1397.7
15°	1376.5
17.5°	1349.1
20°	1318.7
22.5°	1285.3
25°	1242.8
27.5°	1188.1
30°	1118.2
32.5°	1045.2
35°	957.2
37.5°	860.0
40°	747.5
42.5°	635.1
45°	528.7
47.5°	428.4
50°	340.4
52.5°	258.3
55°	191.5
57.5°	136.8
60°	94.2
62.5°	69.9
65°	51.7
67.5°	39.5
70°	27.3
72.5°	21.3
75°	15.2
77.5°	9.1
80°	6.1
82.5°	3.1
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)