

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: P577748

Luminaire Tested: **FLD6C-50-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577748
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-50-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

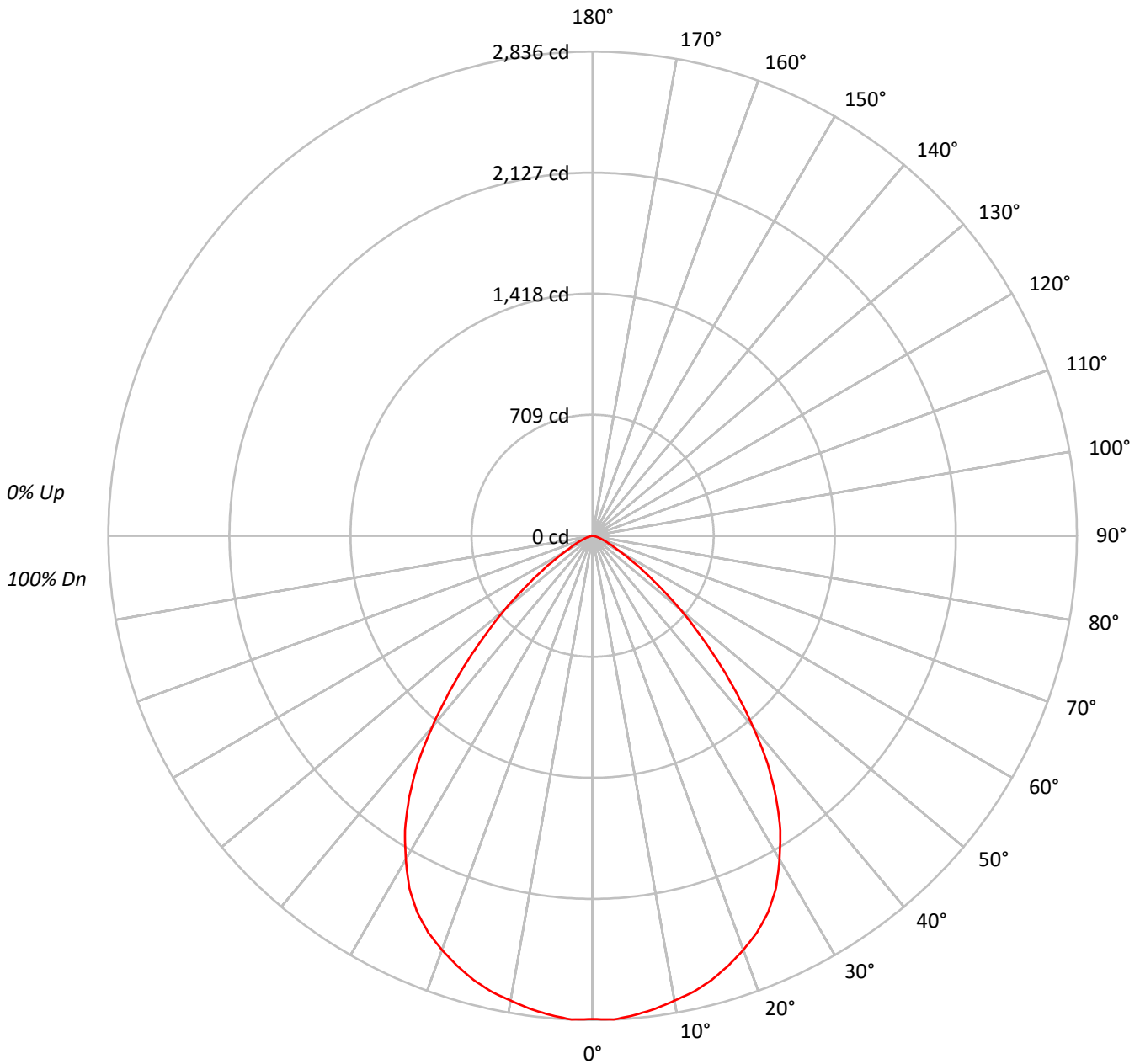
Lumens per Lamp: N/A
Luminaire Lumens: 4589.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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				
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°	155158
5°	155106
10°	153911
15°	152878
20°	150554
25°	147111
30°	138515
35°	125354
40°	104675
45°	80210
50°	56808
55°	35812
60°	20207
65°	13114
70°	8559
75°	6291
80°	3788
85°	3774



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.3	5.8
10°-20°	758.5	16.5
20°-30°	1112.2	24.2
30°-40°	1157.5	25.2
40°-50°	800.8	17.5
50°-60°	348.7	7.6
60°-70°	106.9	2.3
70°-80°	32.0	0.7
80°-90°	4.9	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°	2138.1	46.6
0°-40°	3295.6	71.8
0°-60°	4445.1	96.9
0°-90°	4589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4589.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2830	
5°	2819	267
15°	2694	759
25°	2432	1112
35°	1873	1158
45°	1035	801
55°	375	349
65°	101	107
75°	30	32
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2830.3
2.5°	2836.3
5°	2818.6
7.5°	2794.8
10°	2764.9
12.5°	2735.2
15°	2693.7
17.5°	2640.1
20°	2580.7
22.5°	2515.3
25°	2432.1
27.5°	2325.0
30°	2188.2
32.5°	2045.4
35°	1873.1
37.5°	1682.9
40°	1462.7
42.5°	1242.8
45°	1034.6
47.5°	838.3
50°	666.1
52.5°	505.5
55°	374.7
57.5°	267.6
60°	184.3
62.5°	136.8
65°	101.1
67.5°	77.4
70°	53.4
72.5°	41.7
75°	29.7
77.5°	17.7
80°	12.0
82.5°	6.0
85°	6.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)