

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: P577308

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-40-D010 FEU6C-X-90-40 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

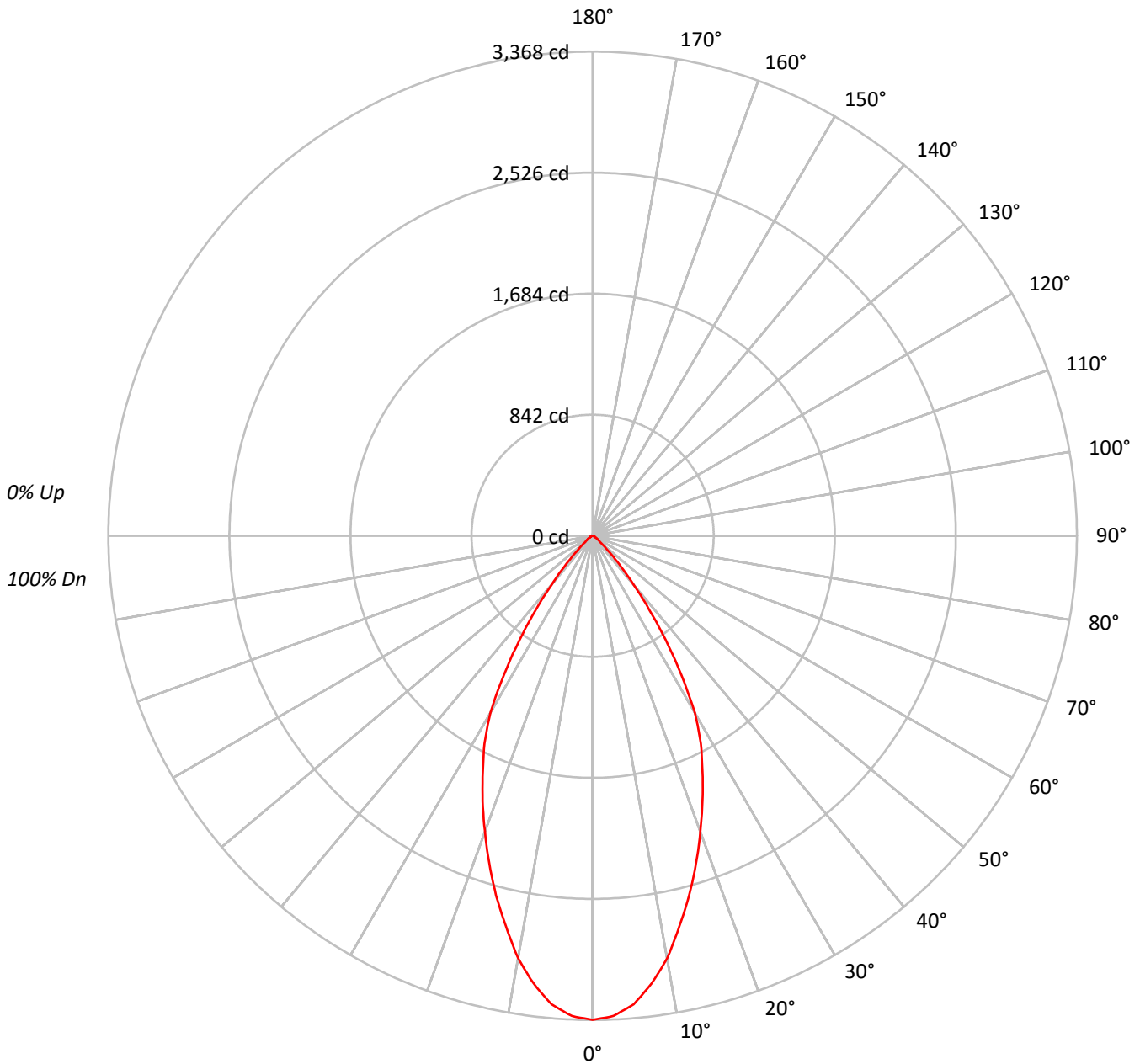
Lumens per Lamp: N/A
Luminaire Lumens: 2627.0 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	184607
5°	180040
10°	166129
15°	147078
20°	127709
25°	109234
30°	90058
35°	59307
40°	31881
45°	14110
50°	5723
55°	4129
60°	2620
65°	1881
70°	1539
75°	1017
80°	1515
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	11.5
10°-20°	722.2	27.5
20°-30°	827.3	31.5
30°-40°	555.9	21.2
40°-50°	158.8	6.0
50°-60°	38.9	1.5
60°-70°	14.8	0.6
70°-80°	5.7	0.2
80°-90°	0.7	0.0
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°	1852.3	70.5
0°-40°	2408.2	91.7
0°-60°	2605.9	99.2
0°-90°	2627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3368	
5°	3272	303
15°	2592	722
25°	1806	827
35°	886	556
45°	182	159
55°	43	39
65°	14	15
75°	5	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3367.5
2.5°	3343.6
5°	3271.7
7.5°	3142.3
10°	2984.4
12.5°	2783.0
15°	2591.5
17.5°	2390.4
20°	2189.1
22.5°	1997.5
25°	1805.9
27.5°	1628.6
30°	1422.7
32.5°	1149.6
35°	886.2
37.5°	646.6
40°	445.5
42.5°	292.2
45°	182.0
47.5°	110.1
50°	67.1
52.5°	52.7
55°	43.2
57.5°	33.6
60°	23.9
62.5°	19.1
65°	14.5
67.5°	9.6
70°	9.6
72.5°	4.8
75°	4.8
77.5°	4.8
80°	4.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)