

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: P578088

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-30 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578088
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-55-D010 FEU6C-X-90-30 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

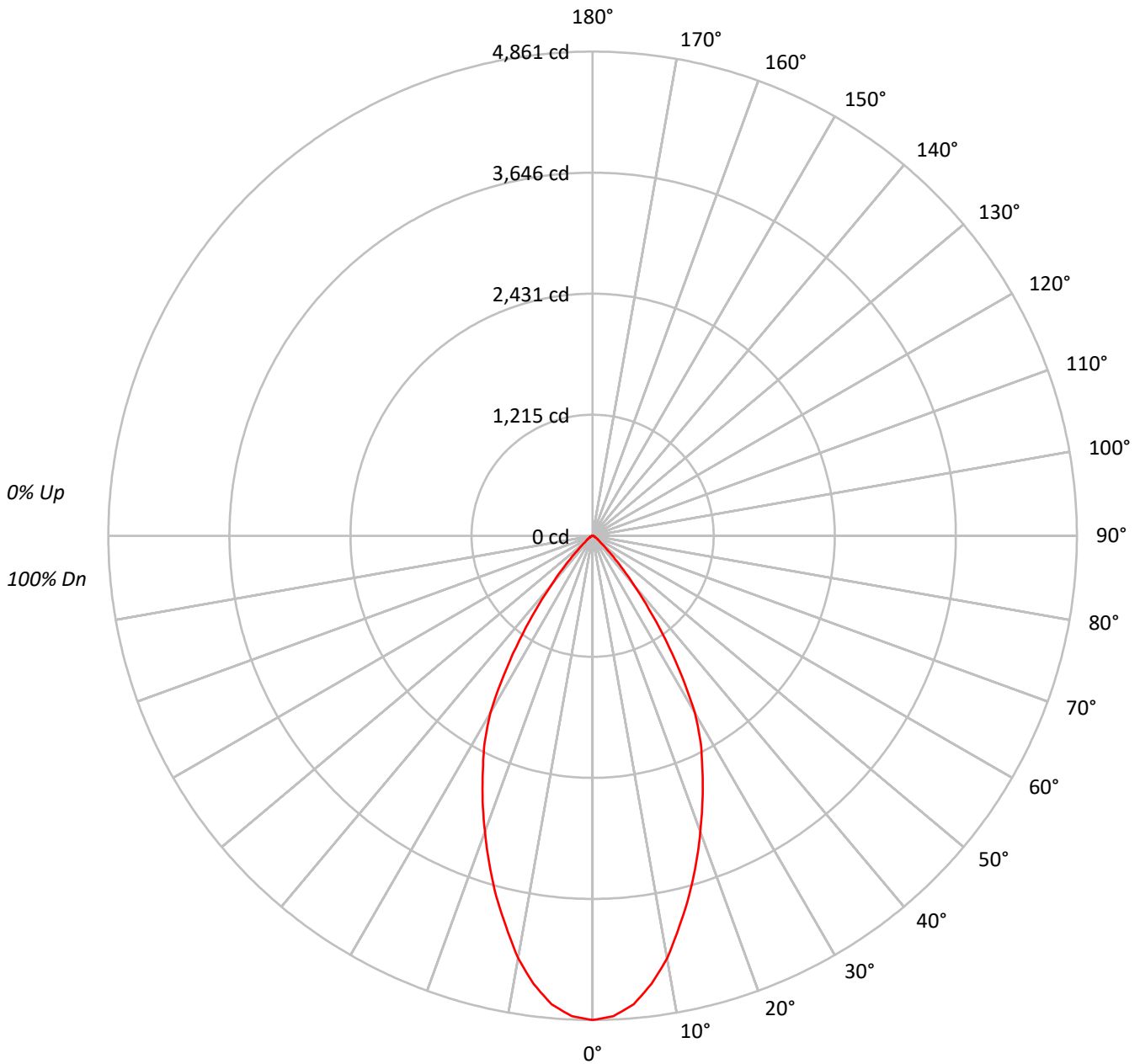
Lumens per Lamp: N/A
Luminaire Lumens: 3792.0 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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°	266481
5°	259883
10°	239797
15°	212305
20°	184338
25°	157672
30°	129995
35°	85601
40°	46015
45°	20374
50°	8264
55°	5954
60°	3783
65°	2711
70°	2228
75°	1483
80°	2210
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.1	11.5
10°-20°	1042.4	27.5
20°-30°	1194.2	31.5
30°-40°	802.4	21.2
40°-50°	229.2	6.0
50°-60°	56.1	1.5
60°-70°	21.3	0.6
70°-80°	8.3	0.2
80°-90°	0.9	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°	2673.8	70.5
0°-40°	3476.1	91.7
0°-60°	3761.4	99.2
0°-90°	3792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3792.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4861	
5°	4723	437
15°	3741	1042
25°	2607	1194
35°	1279	802
45°	263	229
55°	62	56
65°	21	21
75°	7	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4861.0
2.5°	4826.4
5°	4722.6
7.5°	4535.8
10°	4307.8
12.5°	4017.2
15°	3740.8
17.5°	3450.4
20°	3159.8
22.5°	2883.4
25°	2606.7
27.5°	2350.9
30°	2053.6
32.5°	1659.4
35°	1279.1
37.5°	933.4
40°	643.0
42.5°	421.7
45°	262.8
47.5°	159.0
50°	96.9
52.5°	76.0
55°	62.3
57.5°	48.4
60°	34.5
62.5°	27.6
65°	20.9
67.5°	13.9
70°	13.9
72.5°	7.0
75°	7.0
77.5°	7.0
80°	7.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)