

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: P579108

Luminaire Tested: **FLD6C-70-D010 FEU6C-X-90-40 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579108
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-70-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

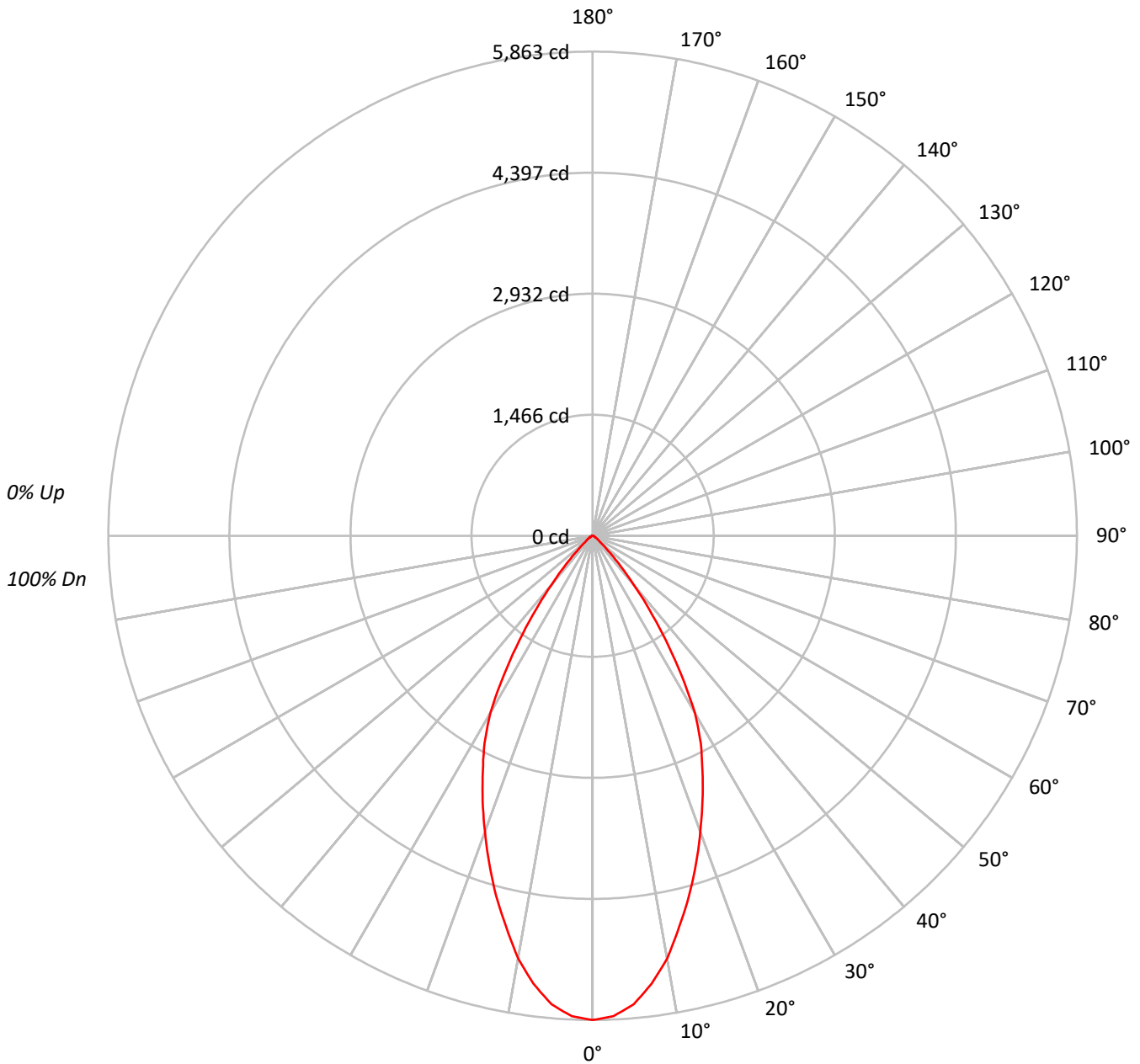
Lumens per Lamp: N/A
Luminaire Lumens: 4574.0 lumens
Efficiency: N/A
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	321433
5°	313476
10°	289251
15°	256085
20°	222357
25°	190190
30°	156803
35°	103256
40°	55511
45°	24576
50°	9961
55°	7187
60°	4561
65°	3269
70°	2693
75°	1779
80°	2652
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.3	11.5
10°-20°	1257.4	27.5
20°-30°	1440.5	31.5
30°-40°	967.8	21.2
40°-50°	276.5	6.0
50°-60°	67.7	1.5
60°-70°	25.8	0.6
70°-80°	10.0	0.2
80°-90°	1.1	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°	3225.2	70.5
0°-40°	4193.0	91.7
0°-60°	4537.2	99.2
0°-90°	4574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4574.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5863	
5°	5696	527
15°	4512	1257
25°	3144	1440
35°	1543	968
45°	317	276
55°	75	68
65°	25	26
75°	8	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5863.4
2.5°	5821.8
5°	5696.5
7.5°	5471.2
10°	5196.2
12.5°	4845.7
15°	4512.2
17.5°	4162.0
20°	3811.5
22.5°	3478.0
25°	3144.3
27.5°	2835.7
30°	2477.1
32.5°	2001.6
35°	1542.9
37.5°	1125.9
40°	775.7
42.5°	508.7
45°	317.0
47.5°	191.7
50°	116.8
52.5°	91.7
55°	75.2
57.5°	58.4
60°	41.6
62.5°	33.3
65°	25.2
67.5°	16.8
70°	16.8
72.5°	8.4
75°	8.4
77.5°	8.4
80°	8.4
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)