

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: P579558

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-80-D010 FEU6C-X-90-27 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

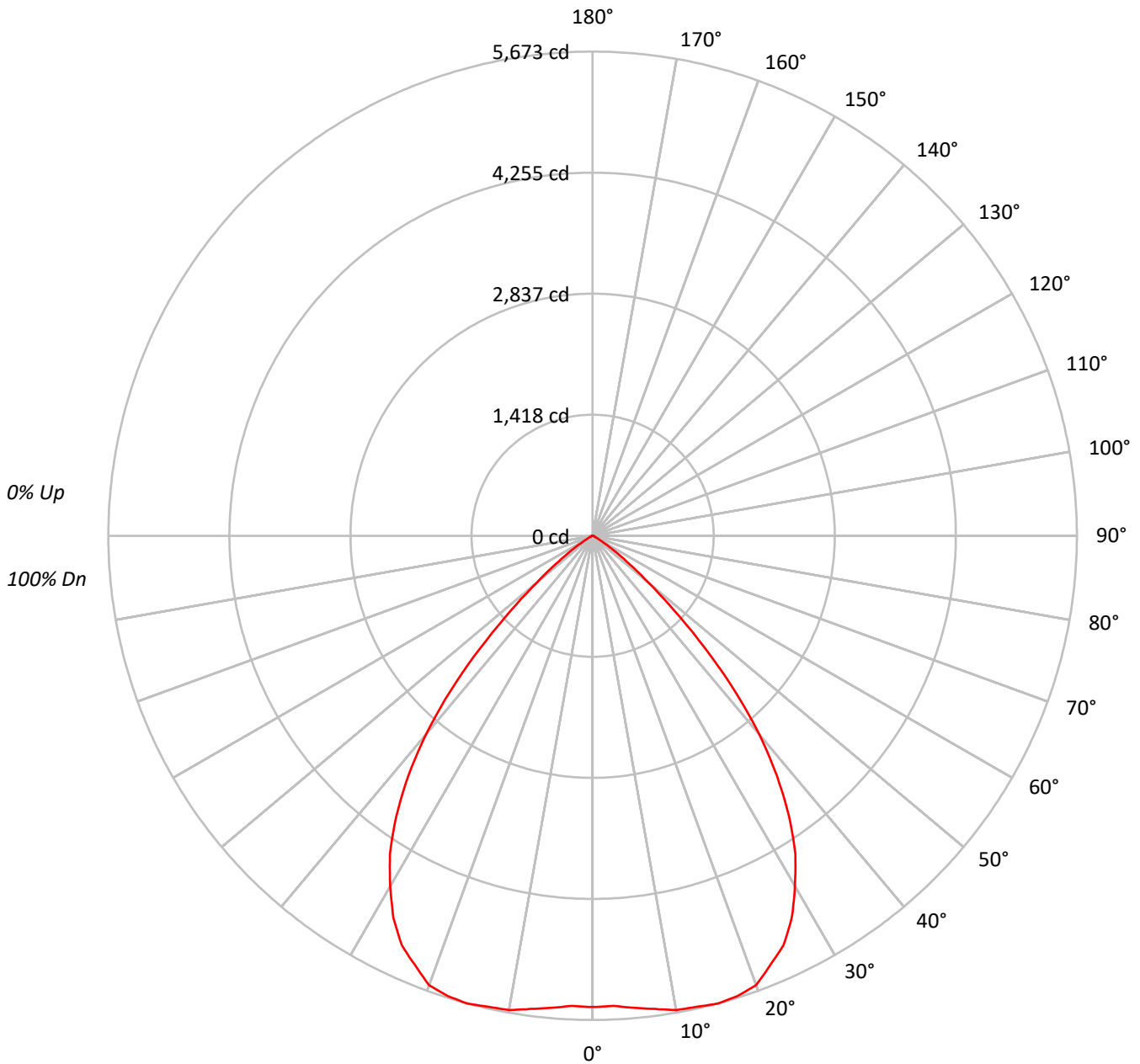
Lumens per Lamp: N/A
Luminaire Lumens: 8840.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92				92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76				76
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69				69
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63				63
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57				57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48				48
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44				44
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41				41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	302750
5°	305552
10°	314100
15°	321960
20°	326847
25°	320093
30°	300097
35°	268308
40°	217321
45°	143759
50°	72663
55°	30661
60°	9879
65°	3878
70°	3238
75°	2139
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.8	6.0
10°-20°	1601.3	18.1
20°-30°	2413.9	27.3
30°-40°	2470.7	27.9
40°-50°	1439.4	16.3
50°-60°	330.8	3.7
60°-70°	40.6	0.5
70°-80°	10.6	0.1
80°-90°	0.0	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°	4547.9	51.4
0°-40°	7018.7	79.4
0°-60°	8788.8	99.4
0°-90°	8840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8840.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5523	
5°	5552	533
15°	5673	1601
25°	5292	2414
35°	4009	2471
45°	1854	1439
55°	321	331
65°	30	41
75°	10	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5522.6
2.5°	5512.5
5°	5552.5
7.5°	5592.5
10°	5642.6
12.5°	5652.7
15°	5672.9
17.5°	5652.7
20°	5602.6
22.5°	5442.2
25°	5291.9
27.5°	5051.5
30°	4740.8
32.5°	4420.1
35°	4009.2
37.5°	3547.9
40°	3036.8
42.5°	2465.6
45°	1854.3
47.5°	1292.8
50°	852.0
52.5°	541.3
55°	320.8
57.5°	170.5
60°	90.1
62.5°	50.1
65°	29.9
67.5°	29.9
70°	20.2
72.5°	10.1
75°	10.1
77.5°	10.1
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)