

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: P579528

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-27 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579528
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-80-D010 FEU6C-X-90-27 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

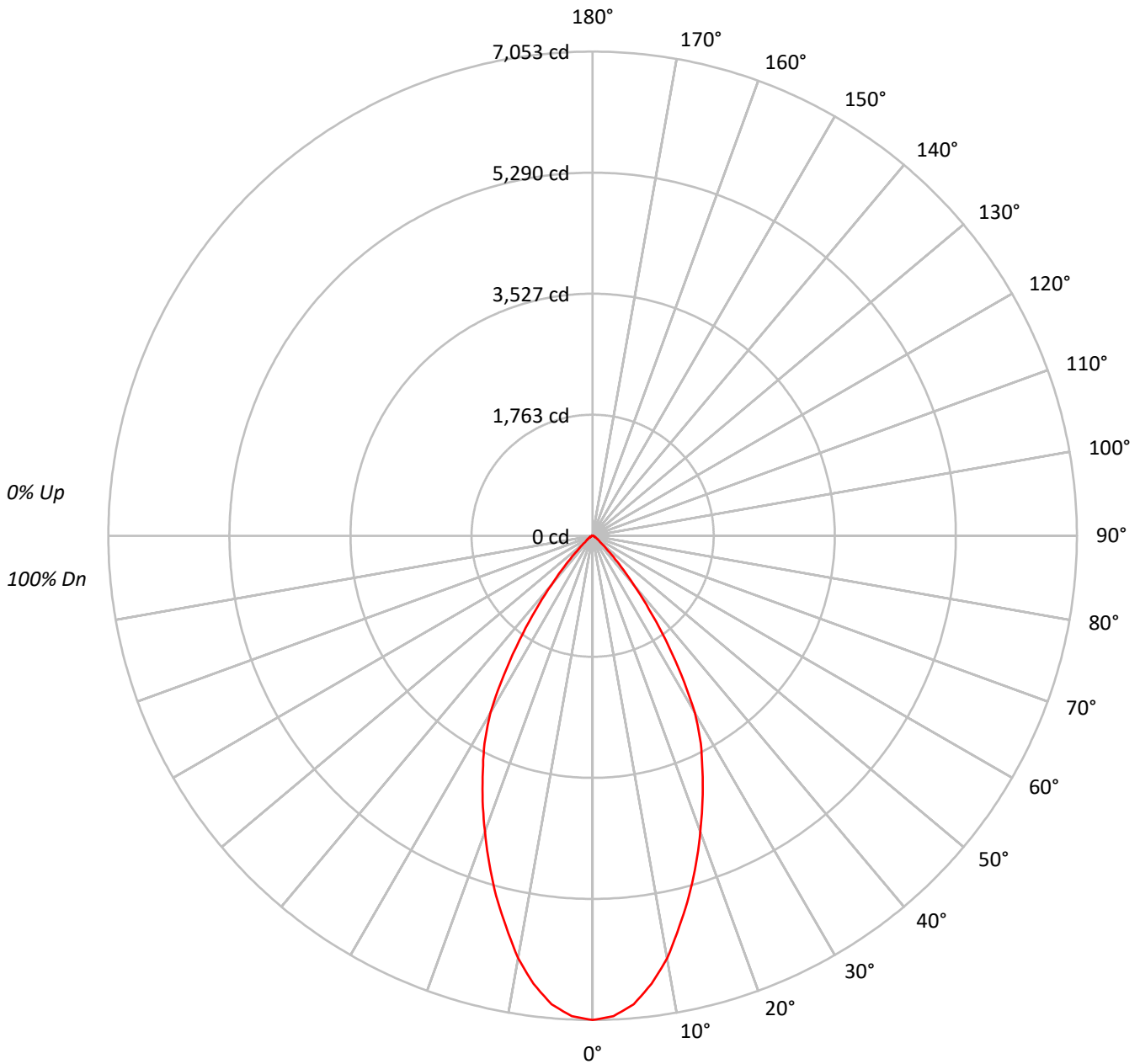
Lumens per Lamp: N/A
Luminaire Lumens: 5502.0 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	
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	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°	386647
5°	377079
10°	347934
15°	308044
20°	267470
25°	228775
30°	188611
35°	124209
40°	66768
45°	29561
50°	11983
55°	8650
60°	5493
65°	3930
70°	3238
75°	2139
80°	3189
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.2	11.5
10°-20°	1512.5	27.5
20°-30°	1732.7	31.5
30°-40°	1164.2	21.2
40°-50°	332.6	6.0
50°-60°	81.4	1.5
60°-70°	31.0	0.6
70°-80°	12.0	0.2
80°-90°	1.4	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°	3879.5	70.5
0°-40°	5043.7	91.7
0°-60°	5457.7	99.2
0°-90°	5502.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5502.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7053	
5°	6852	634
15°	5428	1513
25°	3782	1733
35°	1856	1164
45°	381	333
55°	90	81
65°	30	31
75°	10	12
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7053.0
2.5°	7002.9
5°	6852.3
7.5°	6581.3
10°	6250.4
12.5°	5828.8
15°	5427.7
17.5°	5006.4
20°	4584.8
22.5°	4183.7
25°	3782.2
27.5°	3411.0
30°	2979.6
32.5°	2407.7
35°	1856.0
37.5°	1354.3
40°	933.0
42.5°	611.9
45°	381.3
47.5°	230.6
50°	140.5
52.5°	110.3
55°	90.5
57.5°	70.3
60°	50.1
62.5°	40.0
65°	30.3
67.5°	20.2
70°	20.2
72.5°	10.1
75°	10.1
77.5°	10.1
80°	10.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)