

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: P580028

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P580028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-90-D010 FEU6C-X-90-40 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

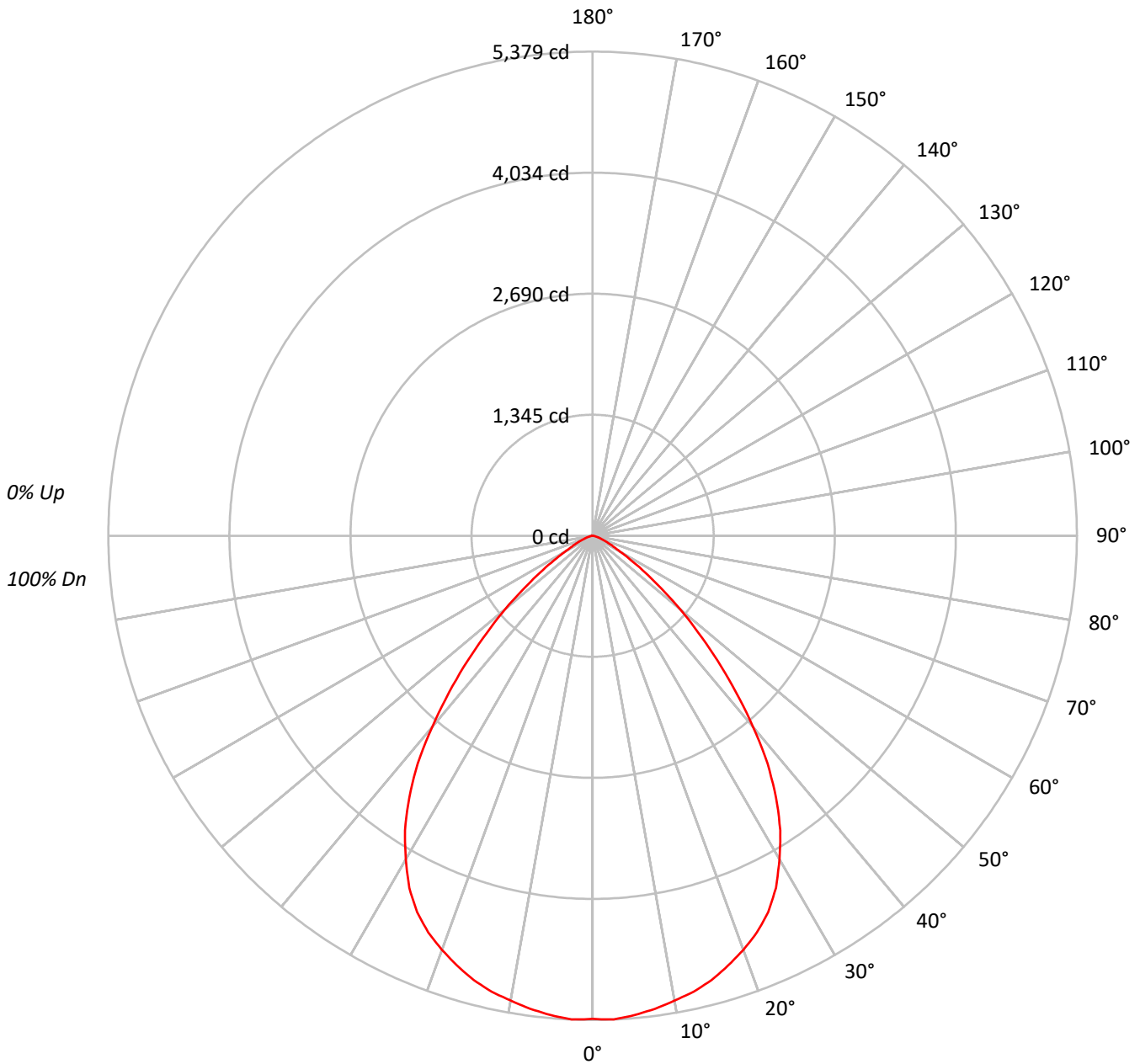
Lumens per Lamp: N/A
Luminaire Lumens: 8702.9 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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			100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	294258
5°	294155
10°	291889
15°	289939
20°	285520
25°	278998
30°	262692
35°	237738
40°	198515
45°	152117
50°	107732
55°	67916
60°	38308
65°	24866
70°	16237
75°	11925
80°	7166
85°	7170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.0	5.8
10°-20°	1438.6	16.5
20°-30°	2109.3	24.2
30°-40°	2195.2	25.2
40°-50°	1518.8	17.5
50°-60°	661.3	7.6
60°-70°	202.8	2.3
70°-80°	60.7	0.7
80°-90°	9.3	0.1
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°	4054.9	46.6
0°-40°	6250.1	71.8
0°-60°	8430.1	96.9
0°-90°	8702.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8702.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5368	
5°	5345	507
15°	5109	1439
25°	4612	2109
35°	3552	2195
45°	1962	1519
55°	711	661
65°	192	203
75°	56	61
85°	11	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5367.7
2.5°	5379.0
5°	5345.4
7.5°	5300.4
10°	5243.6
12.5°	5187.3
15°	5108.7
17.5°	5006.9
20°	4894.2
22.5°	4770.2
25°	4612.5
27.5°	4409.4
30°	4149.9
32.5°	3879.1
35°	3552.4
37.5°	3191.6
40°	2774.0
42.5°	2356.9
45°	1962.1
47.5°	1589.9
50°	1263.2
52.5°	958.7
55°	710.6
57.5°	507.5
60°	349.4
62.5°	259.4
65°	191.7
67.5°	146.7
70°	101.3
72.5°	79.0
75°	56.3
77.5°	33.6
80°	22.7
82.5°	11.4
85°	11.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)