

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: P576008

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-30 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576008
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-20-D010 FEU6C-X-90-30 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

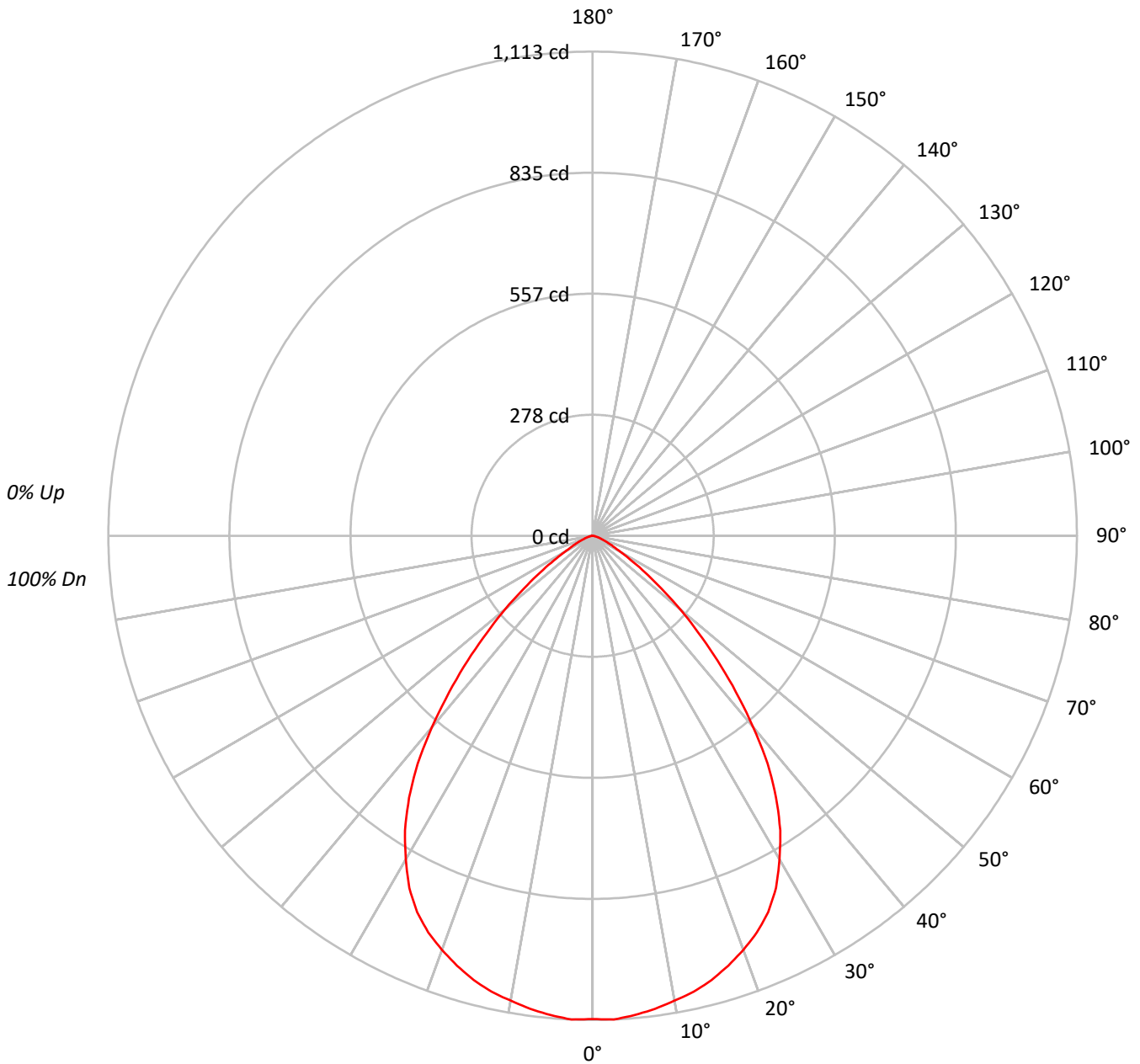
Lumens per Lamp: N/A
Luminaire Lumens: 1801.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60894
5°	60874
10°	60403
15°	60000
20°	59085
25°	57735
30°	54363
35°	49195
40°	41084
45°	31476
50°	22294
55°	14059
60°	7927
65°	5150
70°	3366
75°	2478
80°	1484
85°	1447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	5.8
10°-20°	297.7	16.5
20°-30°	436.5	24.2
30°-40°	454.3	25.2
40°-50°	314.3	17.5
50°-60°	136.8	7.6
60°-70°	42.0	2.3
70°-80°	12.6	0.7
80°-90°	1.9	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°	839.1	46.6
0°-40°	1293.4	71.8
0°-60°	1744.5	96.9
0°-90°	1801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1111	
5°	1106	105
15°	1057	298
25°	954	436
35°	735	454
45°	406	314
55°	147	137
65°	40	42
75°	12	13
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1110.8
2.5°	1113.1
5°	1106.2
7.5°	1096.9
10°	1085.1
12.5°	1073.5
15°	1057.2
17.5°	1036.1
20°	1012.8
22.5°	987.1
25°	954.5
27.5°	912.5
30°	858.8
32.5°	802.7
35°	735.1
37.5°	660.5
40°	574.1
42.5°	487.7
45°	406.0
47.5°	329.0
50°	261.4
52.5°	198.4
55°	147.1
57.5°	105.0
60°	72.3
62.5°	53.7
65°	39.7
67.5°	30.4
70°	21.0
72.5°	16.4
75°	11.7
77.5°	7.0
80°	4.7
82.5°	2.3
85°	2.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)