

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: P578708

Luminaire Tested: **FLD6C-65-D010 FEU6C-X-90-30 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578708
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-65-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

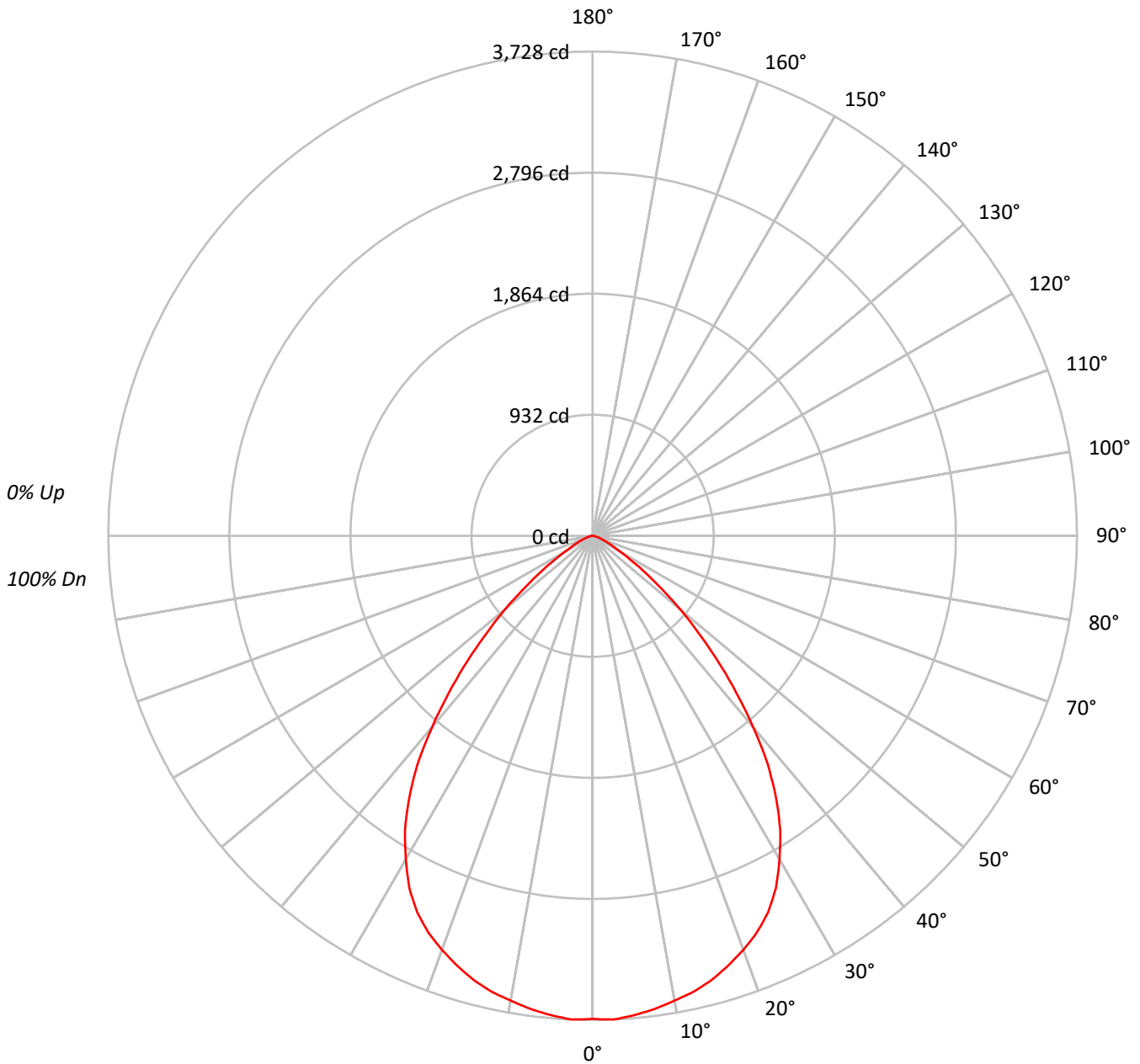
Lumens per Lamp: N/A
Luminaire Lumens: 6032.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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	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°	203947
5°	203879
10°	202306
15°	200955
20°	197890
25°	193372
30°	182072
35°	164771
40°	137594
45°	105430
50°	74667
55°	47071
60°	26555
65°	17239
70°	11252
75°	8282
80°	4956
85°	4969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.4	5.8
10°-20°	997.1	16.5
20°-30°	1461.9	24.2
30°-40°	1521.5	25.2
40°-50°	1052.7	17.5
50°-60°	458.3	7.6
60°-70°	140.5	2.3
70°-80°	42.1	0.7
80°-90°	6.4	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°	2810.4	46.6
0°-40°	4331.9	71.8
0°-60°	5842.9	96.9
0°-90°	6032.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6032.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3720	
5°	3705	351
15°	3541	997
25°	3197	1462
35°	2462	1522
45°	1360	1053
55°	492	458
65°	133	141
75°	39	42
85°	8	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3720.3
2.5°	3728.2
5°	3704.9
7.5°	3673.7
10°	3634.3
12.5°	3595.3
15°	3540.8
17.5°	3470.3
20°	3392.1
22.5°	3306.2
25°	3196.9
27.5°	3056.1
30°	2876.3
32.5°	2688.6
35°	2462.1
37.5°	2212.1
40°	1922.7
42.5°	1633.6
45°	1359.9
47.5°	1102.0
50°	875.5
52.5°	664.5
55°	492.5
57.5°	351.8
60°	242.2
62.5°	179.8
65°	132.9
67.5°	101.7
70°	70.2
72.5°	54.8
75°	39.1
77.5°	23.3
80°	15.7
82.5°	7.9
85°	7.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)