

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: P577468

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-45-D010 FEU6C-X-90-30 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

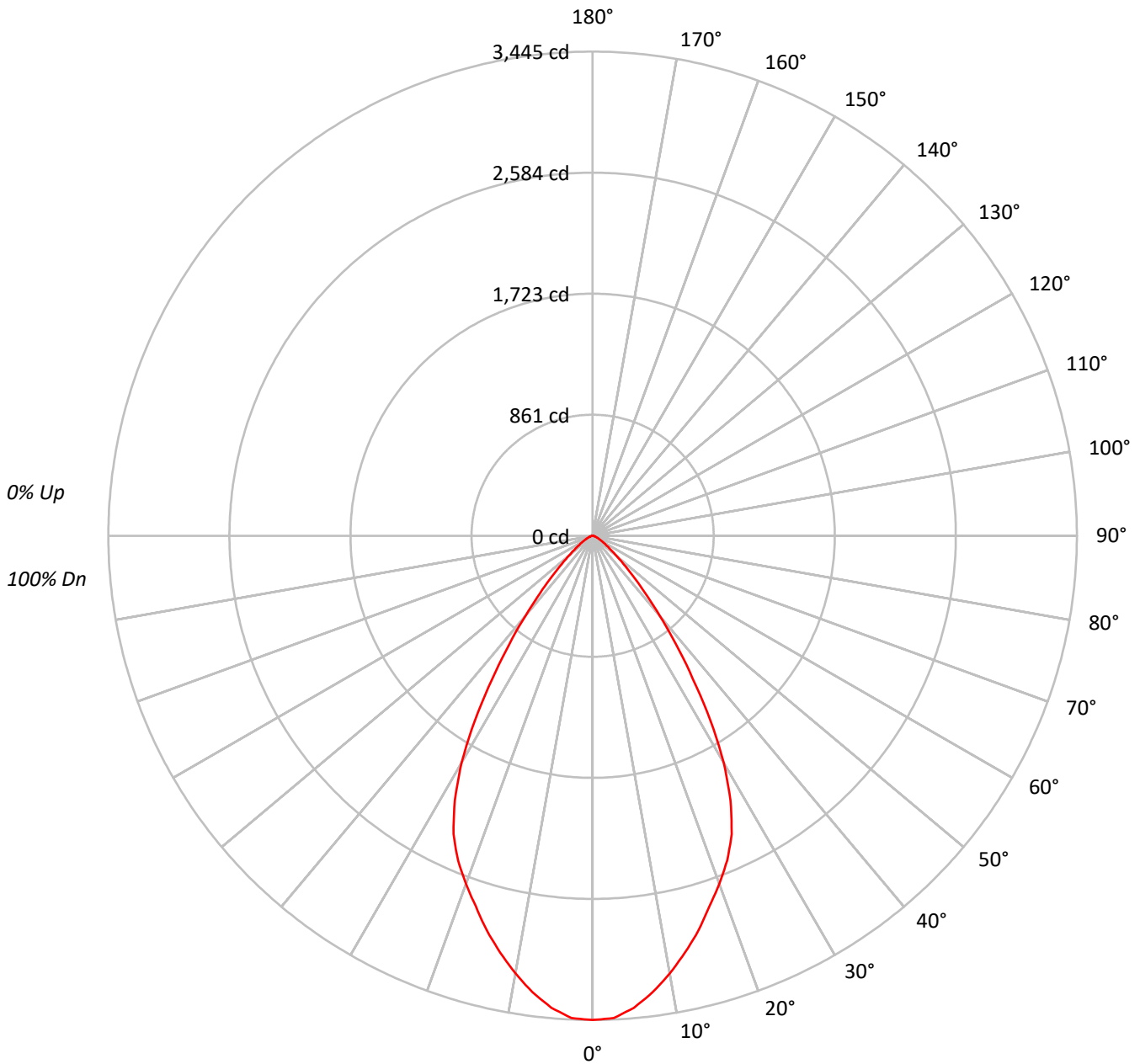
Lumens per Lamp: N/A
Luminaire Lumens: 3481.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): NR
Input Current (Ain): 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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	88	84	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72			72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188855
5°	185472
10°	175999
15°	165041
20°	153704
25°	141619
30°	118005
35°	83172
40°	53006
45°	31608
50°	18660
55°	11871
60°	8179
65°	5798
70°	3991
75°	3156
80°	1547
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	9.0
10°-20°	814.9	23.4
20°-30°	1055.8	30.3
30°-40°	783.9	22.5
40°-50°	330.9	9.5
50°-60°	117.5	3.4
60°-70°	45.3	1.3
70°-80°	15.7	0.5
80°-90°	2.0	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°	2185.7	62.8
0°-40°	2969.6	85.3
0°-60°	3418.0	98.2
0°-90°	3481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3481.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3445	
5°	3370	315
15°	2908	815
25°	2341	1056
35°	1243	784
45°	408	331
55°	124	117
65°	45	45
75°	15	16
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3445.0
2.5°	3435.0
5°	3370.4
7.5°	3275.9
10°	3161.7
12.5°	3037.3
15°	2908.0
17.5°	2764.0
20°	2634.7
22.5°	2500.5
25°	2341.3
27.5°	2122.6
30°	1864.2
32.5°	1560.8
35°	1242.8
37.5°	974.4
40°	740.7
42.5°	551.7
45°	407.7
47.5°	298.2
50°	218.8
52.5°	164.0
55°	124.2
57.5°	94.4
60°	74.6
62.5°	54.7
65°	44.7
67.5°	34.7
70°	24.9
72.5°	19.8
75°	14.9
77.5°	10.0
80°	4.9
82.5°	4.9
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)