

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: P577488

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577488
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-45-D010 FEU6C-X-90-30 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

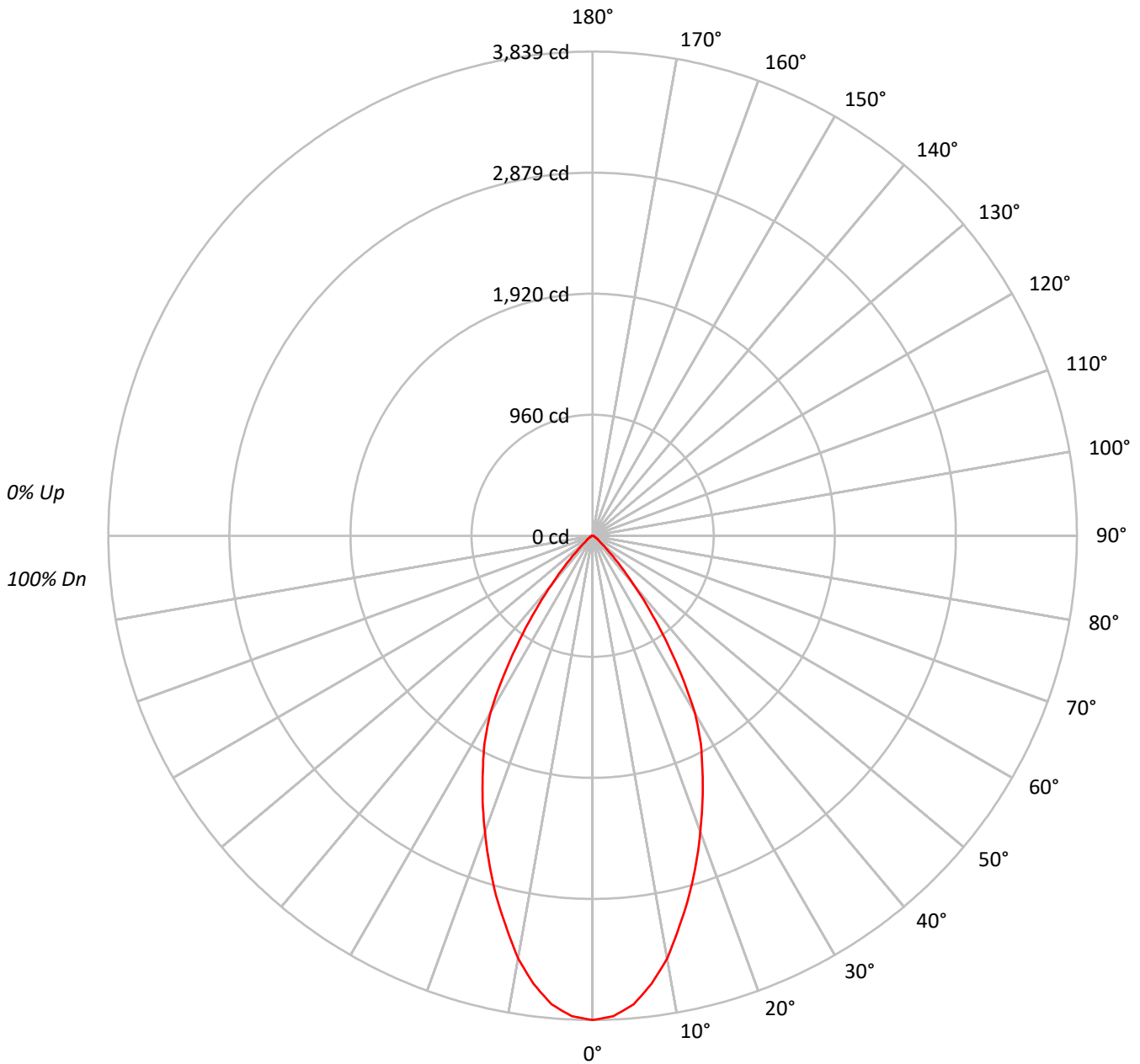
Lumens per Lamp: N/A
Luminaire Lumens: 2995.1 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	210471
5°	205260
10°	189398
15°	167685
20°	145595
25°	124531
30°	102674
35°	67612
40°	36347
45°	16095
50°	6524
55°	4702
60°	2993
65°	2140
70°	1763
75°	1165
80°	1736
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	11.5
10°-20°	823.3	27.5
20°-30°	943.2	31.5
30°-40°	633.7	21.2
40°-50°	181.1	6.0
50°-60°	44.3	1.5
60°-70°	16.9	0.6
70°-80°	6.5	0.2
80°-90°	0.7	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°	2111.8	70.5
0°-40°	2745.5	91.7
0°-60°	2970.9	99.2
0°-90°	2995.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2995.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3839	
5°	3730	345
15°	2955	823
25°	2059	943
35°	1010	634
45°	208	181
55°	49	44
65°	16	17
75°	6	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3839.3
2.5°	3812.0
5°	3730.0
7.5°	3582.5
10°	3402.4
12.5°	3172.9
15°	2954.6
17.5°	2725.2
20°	2495.7
22.5°	2277.4
25°	2058.8
27.5°	1856.8
30°	1622.0
32.5°	1310.6
35°	1010.3
37.5°	737.2
40°	507.9
42.5°	333.1
45°	207.6
47.5°	125.6
50°	76.5
52.5°	60.0
55°	49.2
57.5°	38.3
60°	27.3
62.5°	21.8
65°	16.5
67.5°	11.0
70°	11.0
72.5°	5.5
75°	5.5
77.5°	5.5
80°	5.5
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)