

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: P577168

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577168
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-40-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

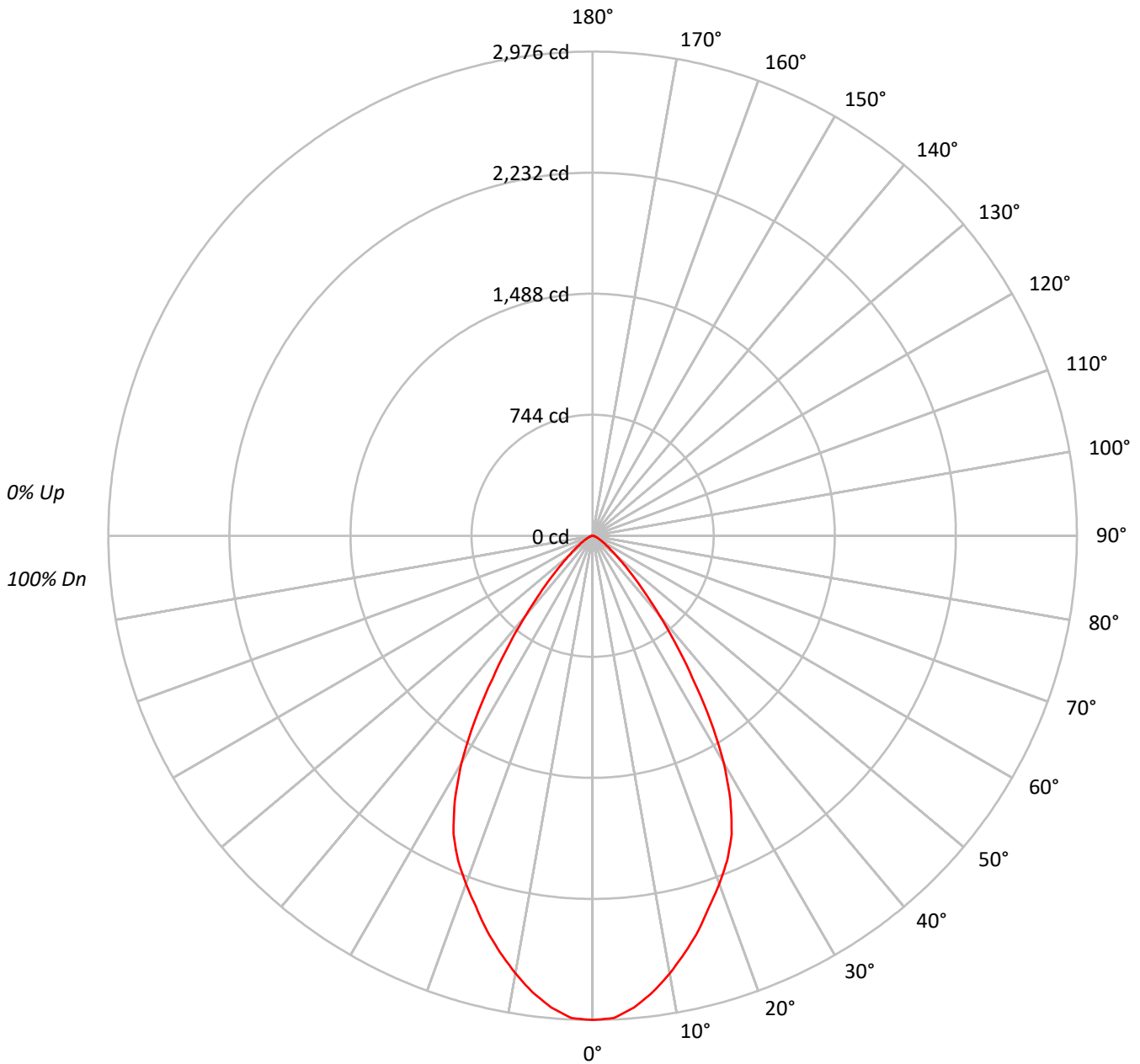
Lumens per Lamp: N/A
Luminaire Lumens: 3006.9 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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				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°	163139
5°	160219
10°	152035
15°	142566
20°	132772
25°	122336
30°	101933
35°	71842
40°	45786
45°	27305
50°	16119
55°	10255
60°	7061
65°	5007
70°	3446
75°	2732
80°	1326
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.1	9.0
10°-20°	703.9	23.4
20°-30°	912.1	30.3
30°-40°	677.1	22.5
40°-50°	285.9	9.5
50°-60°	101.5	3.4
60°-70°	39.2	1.3
70°-80°	13.5	0.5
80°-90°	1.7	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°	1888.1	62.8
0°-40°	2565.2	85.3
0°-60°	2952.5	98.2
0°-90°	3006.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3006.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2976	
5°	2912	272
15°	2512	704
25°	2022	912
35°	1074	677
45°	352	286
55°	107	101
65°	39	39
75°	13	14
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2975.9
2.5°	2967.2
5°	2911.5
7.5°	2829.8
10°	2731.2
12.5°	2623.7
15°	2512.0
17.5°	2387.6
20°	2275.9
22.5°	2160.0
25°	2022.5
27.5°	1833.5
30°	1610.3
32.5°	1348.3
35°	1073.5
37.5°	841.7
40°	639.8
42.5°	476.6
45°	352.2
47.5°	257.6
50°	189.0
52.5°	141.7
55°	107.3
57.5°	81.5
60°	64.4
62.5°	47.3
65°	38.6
67.5°	30.0
70°	21.5
72.5°	17.1
75°	12.9
77.5°	8.6
80°	4.2
82.5°	4.2
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)