

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: P577228

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-35 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577228
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-90-35 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

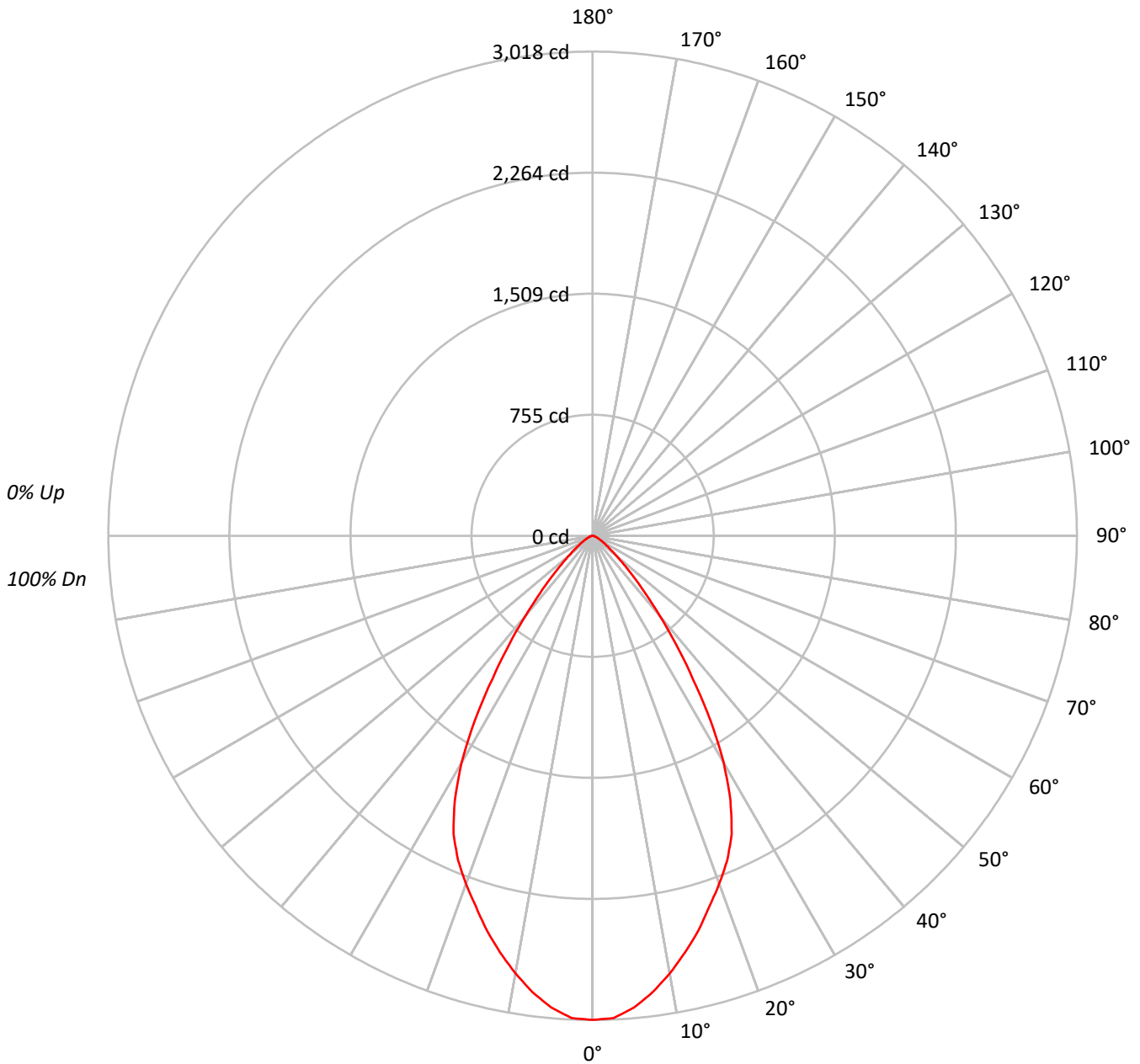
Lumens per Lamp: N/A
Luminaire Lumens: 3049.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	93	105	100	96	92	97	93	90	94	91	88	91	89	87	85	85	85	85
3	101	94	88	84	99	92	87	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61	61	61	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57	57
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53	53	53	53
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49	49	49	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	48	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165420
5°	162458
10°	154155
15°	144558
20°	134628
25°	124047
30°	103358
35°	72846
40°	46430
45°	27685
50°	16341
55°	10399
60°	7160
65°	5085
70°	3494
75°	2775
80°	1357
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	9.0
10°-20°	713.7	23.4
20°-30°	924.8	30.3
30°-40°	686.6	22.5
40°-50°	289.9	9.5
50°-60°	102.9	3.4
60°-70°	39.7	1.3
70°-80°	13.8	0.5
80°-90°	1.8	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°	1914.4	62.8
0°-40°	2601.0	85.3
0°-60°	2993.8	98.2
0°-90°	3049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3049.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3018	
5°	2952	276
15°	2547	714
25°	2051	925
35°	1088	687
45°	357	290
55°	109	103
65°	39	40
75°	13	14
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3017.5
2.5°	3008.7
5°	2952.2
7.5°	2869.3
10°	2769.3
12.5°	2660.3
15°	2547.1
17.5°	2420.9
20°	2307.7
22.5°	2190.1
25°	2050.8
27.5°	1859.1
30°	1632.8
32.5°	1367.1
35°	1088.5
37.5°	853.4
40°	648.8
42.5°	483.3
45°	357.1
47.5°	261.2
50°	191.6
52.5°	143.7
55°	108.8
57.5°	82.7
60°	65.3
62.5°	47.9
65°	39.2
67.5°	30.4
70°	21.8
72.5°	17.4
75°	13.1
77.5°	8.8
80°	4.3
82.5°	4.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)