

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: P579968

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579968
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-90-D010 FEU6C-X-90-35 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

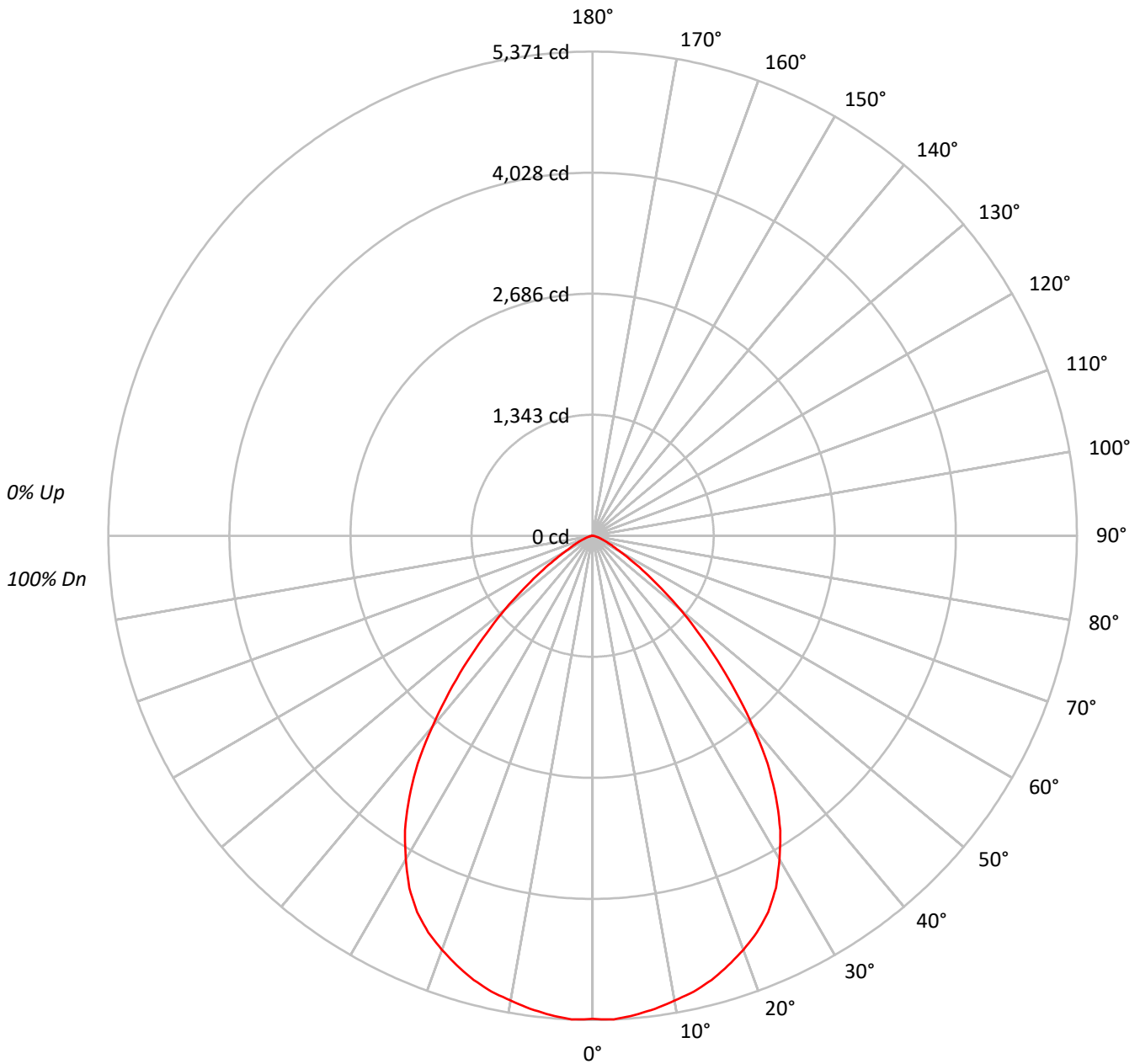
Lumens per Lamp: N/A
Luminaire Lumens: 8690.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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	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°	293820
5°	293715
10°	291455
15°	289502
20°	285094
25°	278581
30°	262300
35°	237383
40°	198221
45°	151884
50°	107570
55°	67821
60°	38254
65°	24841
70°	16221
75°	11925
80°	7166
85°	7108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.2	5.8
10°-20°	1436.4	16.5
20°-30°	2106.1	24.2
30°-40°	2191.9	25.2
40°-50°	1516.5	17.5
50°-60°	660.3	7.6
60°-70°	202.5	2.3
70°-80°	60.7	0.7
80°-90°	9.2	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°	4048.8	46.6
0°-40°	6240.7	71.8
0°-60°	8417.6	96.9
0°-90°	8690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8690.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5360	
5°	5337	506
15°	5101	1436
25°	4606	2106
35°	3547	2192
45°	1959	1517
55°	710	660
65°	192	203
75°	56	61
85°	11	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5359.7
2.5°	5371.0
5°	5337.4
7.5°	5292.5
10°	5235.8
12.5°	5179.5
15°	5101.0
17.5°	4999.4
20°	4886.9
22.5°	4763.0
25°	4605.6
27.5°	4402.8
30°	4143.7
32.5°	3873.3
35°	3547.1
37.5°	3186.8
40°	2769.9
42.5°	2353.4
45°	1959.1
47.5°	1587.5
50°	1261.3
52.5°	957.3
55°	709.6
57.5°	506.8
60°	348.9
62.5°	259.1
65°	191.5
67.5°	146.5
70°	101.2
72.5°	78.9
75°	56.3
77.5°	33.6
80°	22.7
82.5°	11.3
85°	11.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)