

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: P579668

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-35 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579668
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-80-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

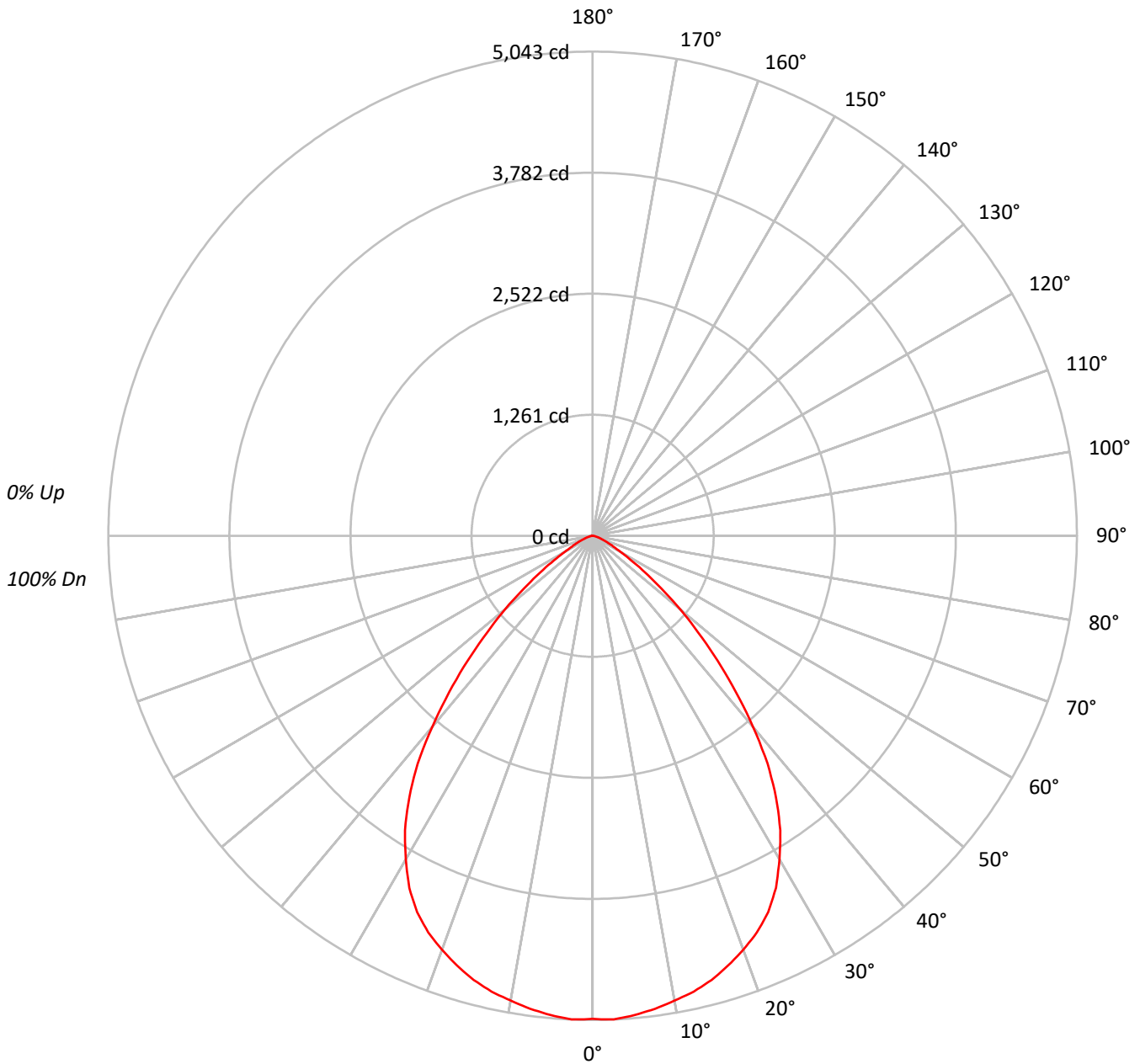
Lumens per Lamp: N/A
Luminaire Lumens: 8158.9 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 89.5
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°	275866
5°	275770
10°	273648
15°	271812
20°	267674
25°	261553
30°	246272
35°	222874
40°	186106
45°	142604
50°	100995
55°	63673
60°	35918
65°	23323
70°	15227
75°	11184
80°	6724
85°	6667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	5.8
10°-20°	1348.7	16.5
20°-30°	1977.4	24.2
30°-40°	2058.0	25.2
40°-50°	1423.8	17.5
50°-60°	619.9	7.6
60°-70°	190.1	2.3
70°-80°	57.0	0.7
80°-90°	8.7	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°	3801.4	46.6
0°-40°	5859.4	71.8
0°-60°	7903.2	96.9
0°-90°	8158.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8158.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5032	
5°	5011	475
15°	4789	1349
25°	4324	1977
35°	3330	2058
45°	1839	1424
55°	666	620
65°	180	190
75°	53	57
85°	11	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5032.2
2.5°	5042.8
5°	5011.3
7.5°	4969.1
10°	4915.9
12.5°	4863.1
15°	4789.3
17.5°	4693.9
20°	4588.3
22.5°	4472.0
25°	4324.1
27.5°	4133.7
30°	3890.5
32.5°	3636.6
35°	3330.3
37.5°	2992.1
40°	2600.6
42.5°	2209.6
45°	1839.4
47.5°	1490.5
50°	1184.2
52.5°	898.8
55°	666.2
57.5°	475.8
60°	327.6
62.5°	243.2
65°	179.8
67.5°	137.6
70°	95.0
72.5°	74.1
75°	52.8
77.5°	31.5
80°	21.3
82.5°	10.6
85°	10.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)