

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: P579738

Luminaire Tested: **FLD6C-80-D010 FEU6C-X-90-40 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
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-90-40 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

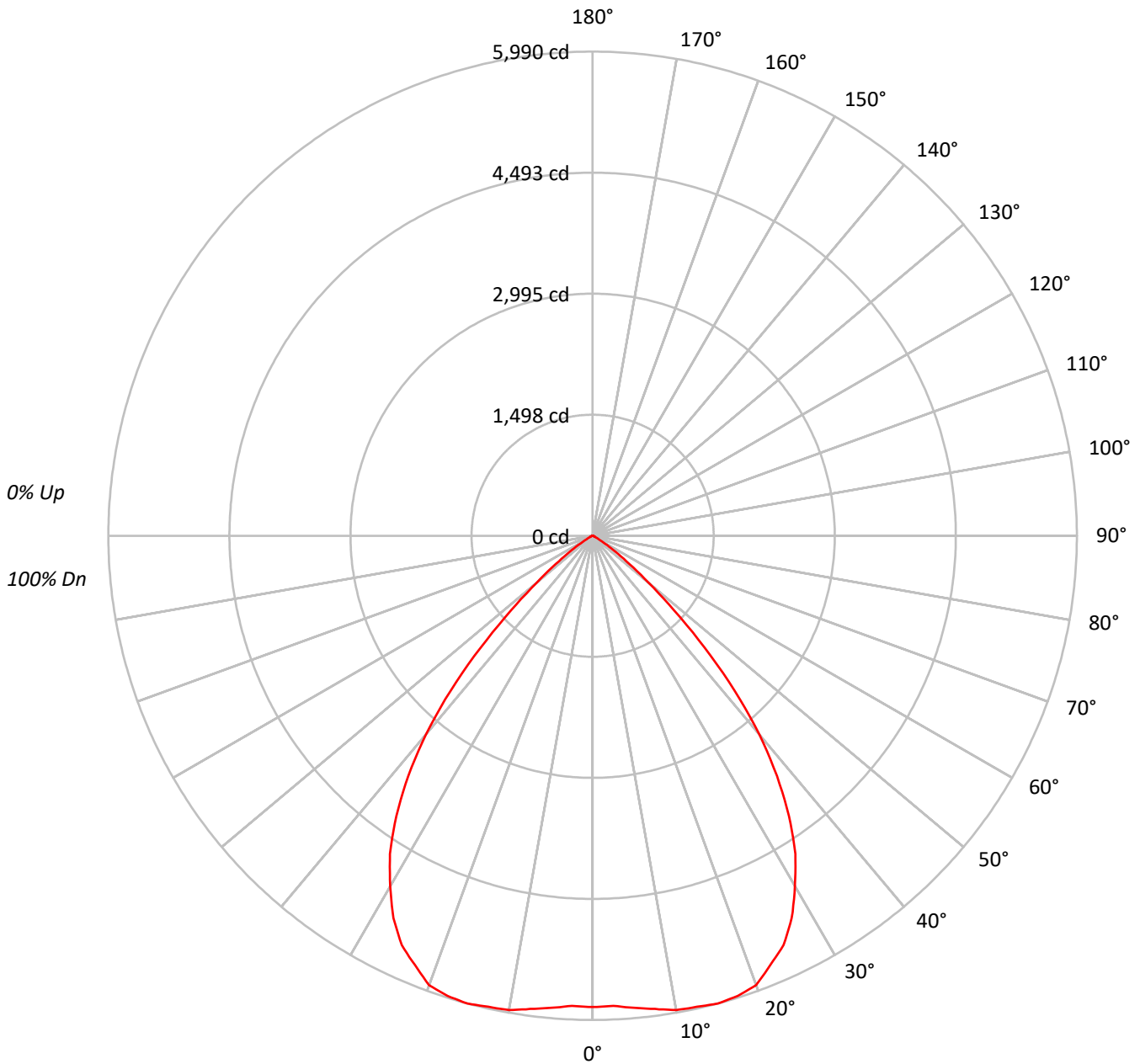
Lumens per Lamp: N/A
Luminaire Lumens: 9334.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
RC	80									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	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92																			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76																			
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69																			
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63																			
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48																			
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44																			
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	319667
5°	322627
10°	331652
15°	339951
20°	345113
25°	337979
30°	316872
35°	283305
40°	229466
45°	151791
50°	76722
55°	32372
60°	10427
65°	4099
70°	3414
75°	2266
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.5	6.0
10°-20°	1690.8	18.1
20°-30°	2548.8	27.3
30°-40°	2608.8	27.9
40°-50°	1519.8	16.3
50°-60°	349.2	3.7
60°-70°	42.9	0.5
70°-80°	11.3	0.1
80°-90°	0.0	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°	4802.1	51.4
0°-40°	7410.9	79.4
0°-60°	9279.9	99.4
0°-90°	9334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9334.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5831	
5°	5863	563
15°	5990	1691
25°	5588	2549
35°	4233	2609
45°	1958	1520
55°	339	349
65°	32	43
75°	11	11
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5831.2
2.5°	5820.5
5°	5862.8
7.5°	5905.0
10°	5957.9
12.5°	5968.6
15°	5989.9
17.5°	5968.6
20°	5915.7
22.5°	5746.3
25°	5587.6
27.5°	5333.8
30°	5005.8
32.5°	4667.1
35°	4233.3
37.5°	3746.1
40°	3206.5
42.5°	2603.4
45°	1957.9
47.5°	1365.0
50°	899.6
52.5°	571.6
55°	338.7
57.5°	180.0
60°	95.1
62.5°	52.9
65°	31.6
67.5°	31.6
70°	21.3
72.5°	10.7
75°	10.7
77.5°	10.7
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)