

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: P576178

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-50 F6X-N-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205310)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-20-D010 FEU6C-X-90-50 F6X-N-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBNLI TRIM

Light Source: -
Ballast/Driver: -

Summary

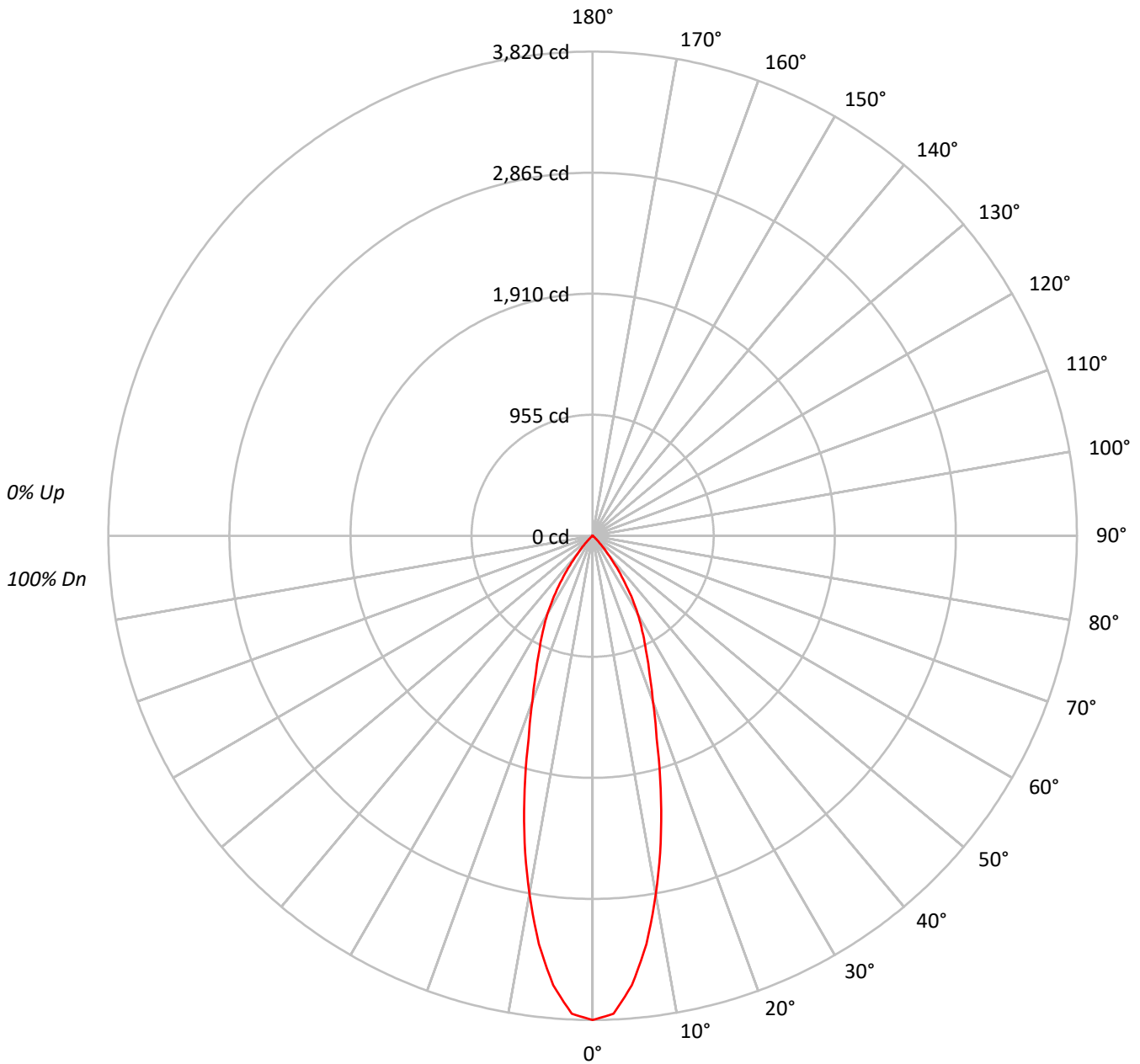
Lumens per Lamp: N/A
Luminaire Lumens: 1678.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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

TEST NUMBER: P576178

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-50 F6X-N-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P576178

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-50 F6X-N-X-LI

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	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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	96	95																																				
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89																																				
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85																																				
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80																																				
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76																																				
6	92	84	79	75	90	83	78	75	82	77	74	80	76	74	79	76	73	72																																				
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68																																				
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	73	69	66	65																																				
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62																																				
10	78	69	64	61	77	69	64	61	68	64	61	67	63	60	67	63	60	59																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	209435
5°	195856
10°	159739
15°	117543
20°	81020
25°	60149
30°	45178
35°	28175
40°	13676
45°	4690
50°	614
55°	468
60°	263
65°	311
70°	385
75°	0
80°	0
85°	0



TEST NUMBER: P576178

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-50 F6X-N-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.6	18.9
10°-20°	570.1	34.0
20°-30°	461.0	27.5
30°-40°	265.5	15.8
40°-50°	56.1	3.3
50°-60°	4.8	0.3
60°-70°	2.4	0.1
70°-80°	0.3	0.0
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°	1348.7	80.4
0°-40°	1614.3	96.2
0°-60°	1675.3	99.8
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3820	
5°	3559	318
15°	2071	570
25°	994	461
35°	421	266
45°	60	56
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P576178

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-50 F6X-N-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	3820.4
2.5°	3774.5
5°	3559.1
7.5°	3249.4
10°	2869.6
12.5°	2480.0
15°	2071.1
17.5°	1676.8
20°	1388.8
22.5°	1168.6
25°	994.4
27.5°	846.9
30°	713.7
32.5°	566.2
35°	421.0
37.5°	292.7
40°	191.1
42.5°	116.2
45°	60.5
47.5°	24.2
50°	7.2
52.5°	7.2
55°	4.9
57.5°	4.9
60°	2.4
62.5°	2.4
65°	2.4
67.5°	2.4
70°	2.4
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)