

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: P576078

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-35 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576078
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-20-D010 FEU6C-X-90-35 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

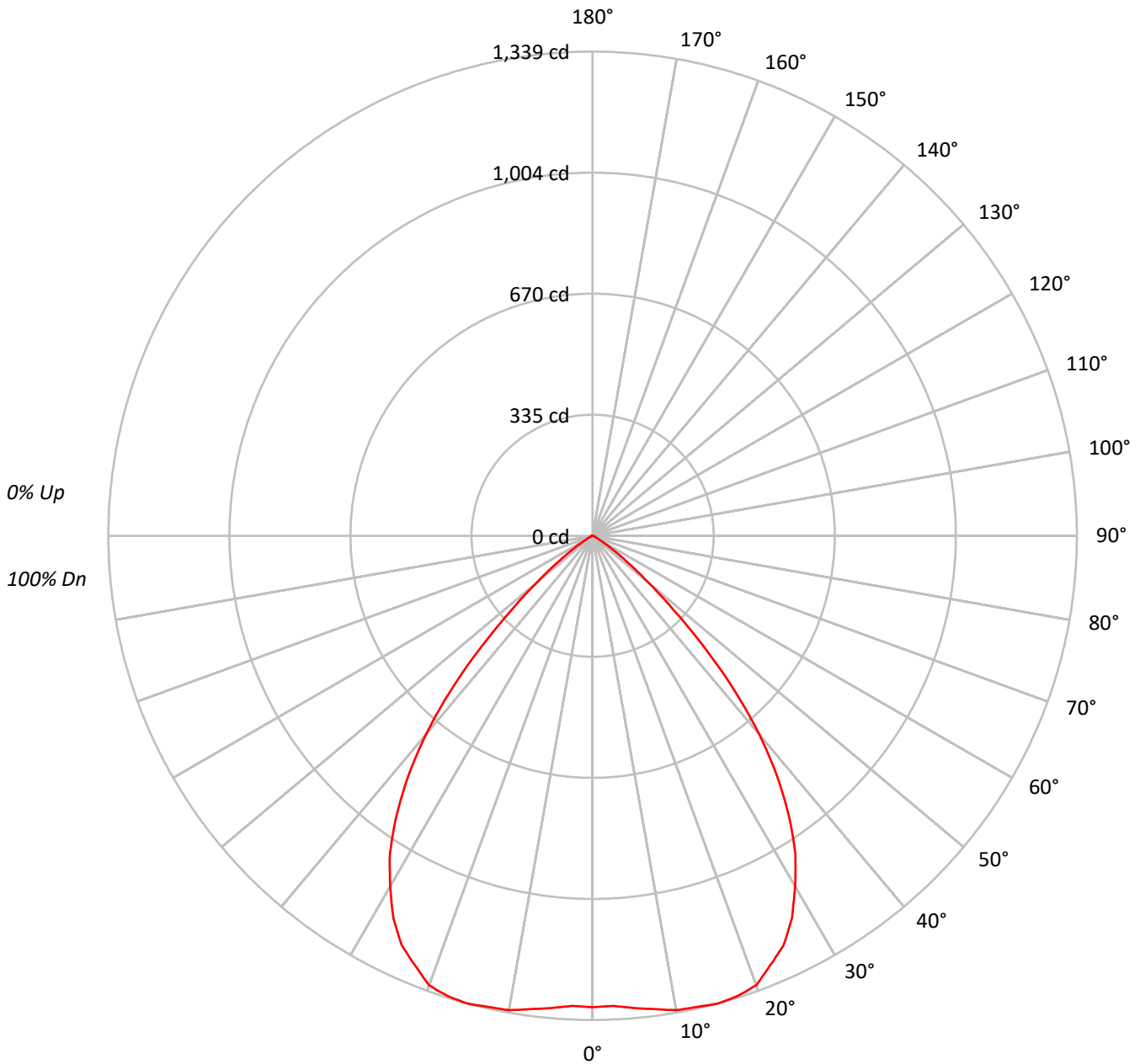
Lumens per Lamp: N/A
Luminaire Lumens: 2087.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P576078

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-35 F6X-W-X-LI

Luminous Intensity Polar Plot





TEST NUMBER: P576078

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-35 F6X-W-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	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°	71475
5°	72138
10°	74152
15°	76011
20°	77164
25°	75567
30°	70846
35°	63343
40°	51310
45°	33942
50°	17151
55°	7235
60°	2335
65°	921
70°	769
75°	508
80°	0
85°	0



TEST NUMBER: P576078

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-35 F6X-W-X-LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	6.0
10°-20°	378.0	18.1
20°-30°	569.9	27.3
30°-40°	583.3	27.9
40°-50°	339.8	16.3
50°-60°	78.1	3.7
60°-70°	9.6	0.5
70°-80°	2.5	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°	1073.7	51.4
0°-40°	1657.0	79.4
0°-60°	2074.9	99.4
0°-90°	2087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1304	
5°	1311	126
15°	1339	378
25°	1249	570
35°	946	583
45°	438	340
55°	76	78
65°	7	10
75°	2	3
85°	0	0
90°	0	



TEST NUMBER: P576078

CATALOG NUMBER: FLD6C-20-D010 FEU6C-X-90-35 F6X-W-X-LI

CANDELA DISTRIBUTION (FULL):

	0°
0°	1303.8
2.5°	1301.4
5°	1310.9
7.5°	1320.3
10°	1332.1
12.5°	1334.5
15°	1339.3
17.5°	1334.5
20°	1322.7
22.5°	1284.8
25°	1249.3
27.5°	1192.6
30°	1119.2
32.5°	1043.5
35°	946.5
37.5°	837.6
40°	717.0
42.5°	582.1
45°	437.8
47.5°	305.2
50°	201.1
52.5°	127.8
55°	75.7
57.5°	40.2
60°	21.3
62.5°	11.8
65°	7.1
67.5°	7.1
70°	4.8
72.5°	2.4
75°	2.4
77.5°	2.4
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)