

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: P577938

Luminaire Tested: **FLD6C-50-D010 FEU6C-X-90-40 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577938
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-50-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

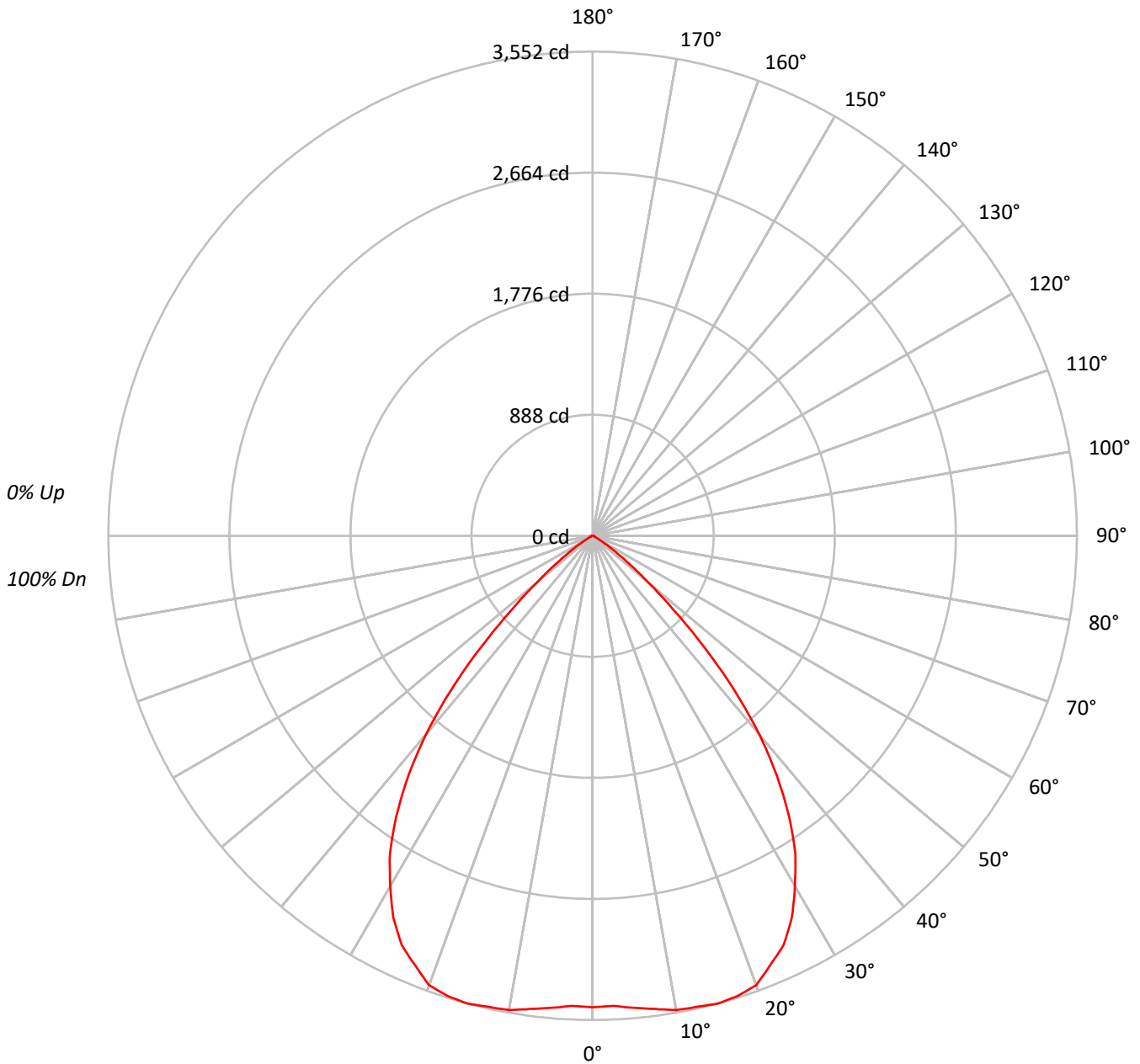
Lumens per Lamp: N/A
Luminaire Lumens: 5534.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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				100															
1	113	110	107	104	110	107	105	103	103	101	99	100	98	97	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83															
3	100	92	87	82	97	91	86	81	88	84	80	86	82	79	83	80	77	76				76															
4	93	85	78	73	92	84	78	73	81	76	72	79	75	71	77	74	70	69				69															
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63				63															
6	82	72	65	60	81	71	65	60	70	64	59	68	63	59	67	62	59	57				57															
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52				52															
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48				48															
9	69	57	51	46	67	57	50	46	56	50	46	55	50	46	54	49	46	44				44															
10	65	54	47	43	64	53	47	42	52	46	42	51	46	42	51	46	42	41				41															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	189563
5°	191316
10°	196667
15°	201590
20°	204651
25°	200419
30°	187902
35°	167997
40°	136069
45°	90009
50°	45500
55°	19192
60°	6184
65°	2426
70°	2020
75°	1334
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	6.0
10°-20°	1002.6	18.1
20°-30°	1511.4	27.3
30°-40°	1547.0	27.9
40°-50°	901.2	16.3
50°-60°	207.1	3.7
60°-70°	25.4	0.5
70°-80°	6.6	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°	2847.6	51.4
0°-40°	4394.6	79.4
0°-60°	5502.9	99.4
0°-90°	5534.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5534.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3458	
5°	3477	334
15°	3552	1003
25°	3313	1511
35°	2510	1547
45°	1161	901
55°	201	207
65°	19	25
75°	6	7
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3457.9
2.5°	3451.5
5°	3476.6
7.5°	3501.6
10°	3533.0
12.5°	3539.3
15°	3552.0
17.5°	3539.3
20°	3508.0
22.5°	3407.5
25°	3313.4
27.5°	3162.9
30°	2968.4
32.5°	2767.6
35°	2510.3
37.5°	2221.4
40°	1901.4
42.5°	1543.8
45°	1161.0
47.5°	809.5
50°	533.5
52.5°	338.9
55°	200.8
57.5°	106.7
60°	56.4
62.5°	31.4
65°	18.7
67.5°	18.7
70°	12.6
72.5°	6.3
75°	6.3
77.5°	6.3
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)