

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: P575358

Luminaire Tested: **FLD6C-120-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575358
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-120-D010 FEU6C-X-90-27 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

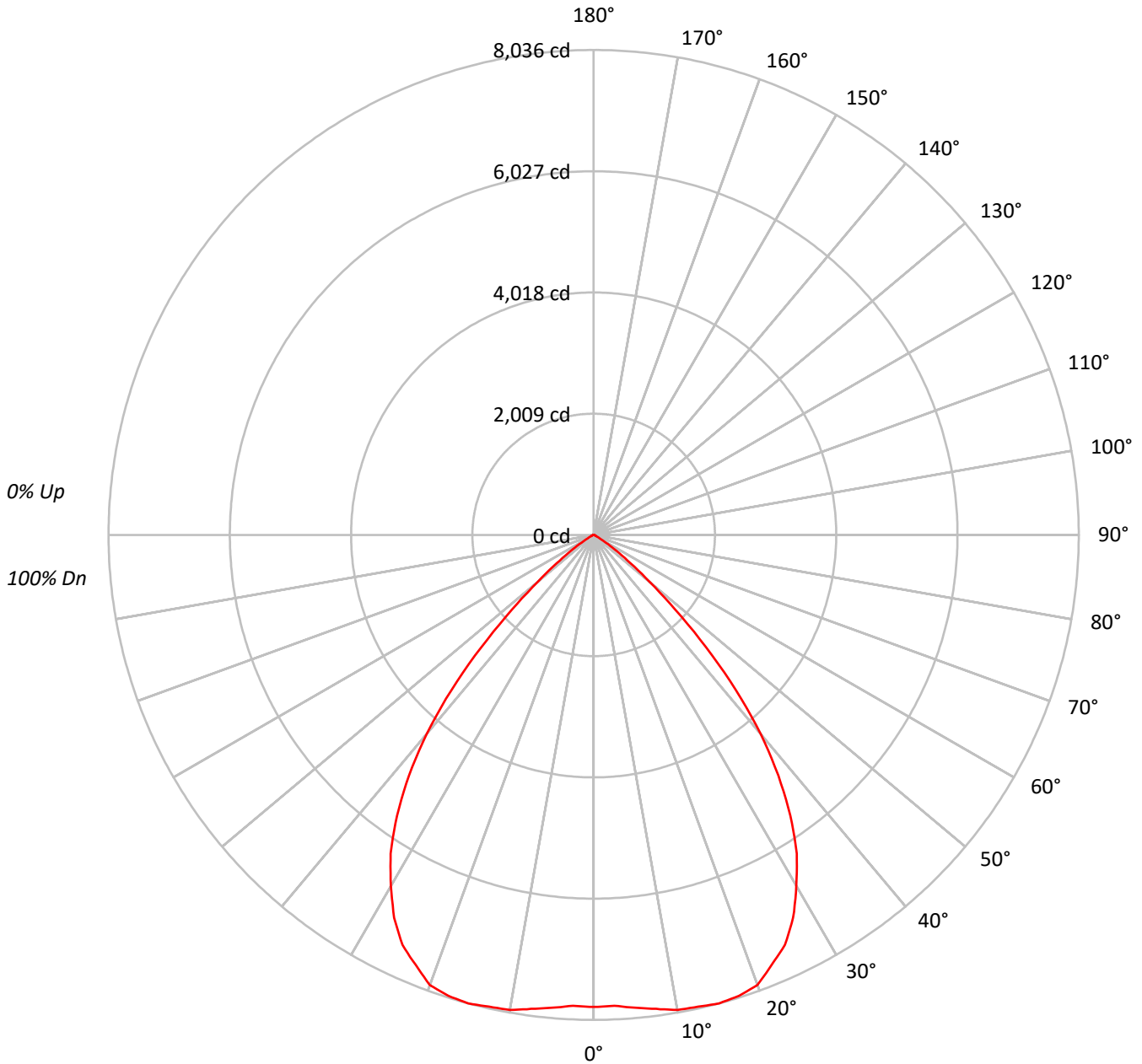
Lumens per Lamp: N/A
Luminaire Lumens: 12522.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 142.3
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°	428847
5°	432819
10°	444926
15°	456058
20°	462985
25°	453419
30°	425097
35°	380063
40°	307841
45°	203641
50°	102931
55°	43430
60°	13990
65°	5500
70°	4584
75°	3029
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	754.7	6.0
10°-20°	2268.3	18.1
20°-30°	3419.3	27.3
30°-40°	3499.8	27.9
40°-50°	2038.9	16.3
50°-60°	468.5	3.7
60°-70°	57.5	0.5
70°-80°	15.1	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°	6442.3	51.4
0°-40°	9942.1	79.4
0°-60°	12449.5	99.4
0°-90°	12522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12522.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7823	
5°	7865	755
15°	8036	2268
25°	7496	3419
35°	5679	3500
45°	2627	2039
55°	454	469
65°	42	58
75°	14	15
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7822.8
2.5°	7808.5
5°	7865.2
7.5°	7921.9
10°	7992.8
12.5°	8007.1
15°	8035.7
17.5°	8007.1
20°	7936.2
22.5°	7709.0
25°	7496.1
27.5°	7155.6
30°	6715.5
32.5°	6261.1
35°	5679.1
37.5°	5025.6
40°	4301.7
42.5°	3492.5
45°	2626.7
47.5°	1831.3
50°	1206.9
52.5°	766.8
55°	454.4
57.5°	241.5
60°	127.6
62.5°	71.0
65°	42.4
67.5°	42.4
70°	28.6
72.5°	14.3
75°	14.3
77.5°	14.3
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)