

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: P577278

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-35 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577278
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-40-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

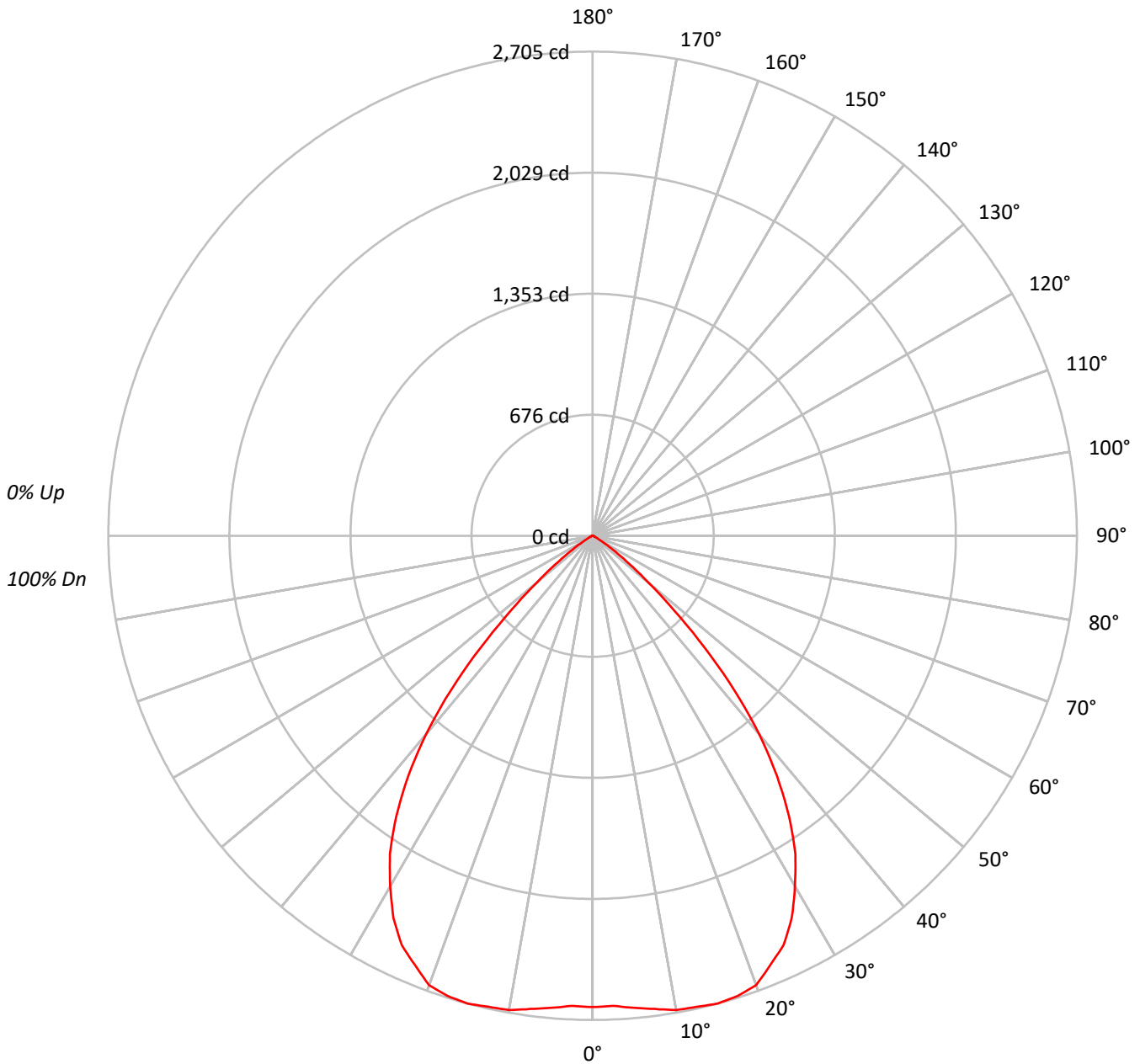
Lumens per Lamp: N/A
Luminaire Lumens: 4215.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	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°	144352
5°	145691
10°	149763
15°	153514
20°	155845
25°	152622
30°	143092
35°	127930
40°	103623
45°	68550
50°	34643
55°	14614
60°	4715
65°	1855
70°	1539
75°	1017
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	6.0
10°-20°	763.5	18.1
20°-30°	1151.0	27.3
30°-40°	1178.1	27.9
40°-50°	686.3	16.3
50°-60°	157.7	3.7
60°-70°	19.4	0.5
70°-80°	5.1	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°	2168.5	51.4
0°-40°	3346.6	79.4
0°-60°	4190.6	99.4
0°-90°	4215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4215.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2633	
5°	2648	254
15°	2705	764
25°	2523	1151
35°	1912	1178
45°	884	686
55°	153	158
65°	14	19
75°	5	5
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2633.2
2.5°	2628.4
5°	2647.5
7.5°	2666.6
10°	2690.4
12.5°	2695.3
15°	2704.9
17.5°	2695.3
20°	2671.4
22.5°	2594.9
25°	2523.2
27.5°	2408.6
30°	2260.5
32.5°	2107.5
35°	1911.6
37.5°	1691.7
40°	1448.0
42.5°	1175.6
45°	884.2
47.5°	616.4
50°	406.2
52.5°	258.1
55°	152.9
57.5°	81.3
60°	43.0
62.5°	23.9
65°	14.3
67.5°	14.3
70°	9.6
72.5°	4.8
75°	4.8
77.5°	4.8
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)