

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: P577098

Luminaire Tested: **FLD6C-35-D010 FEU6C-X-90-50 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577098
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-35-D010 FEU6C-X-90-50 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

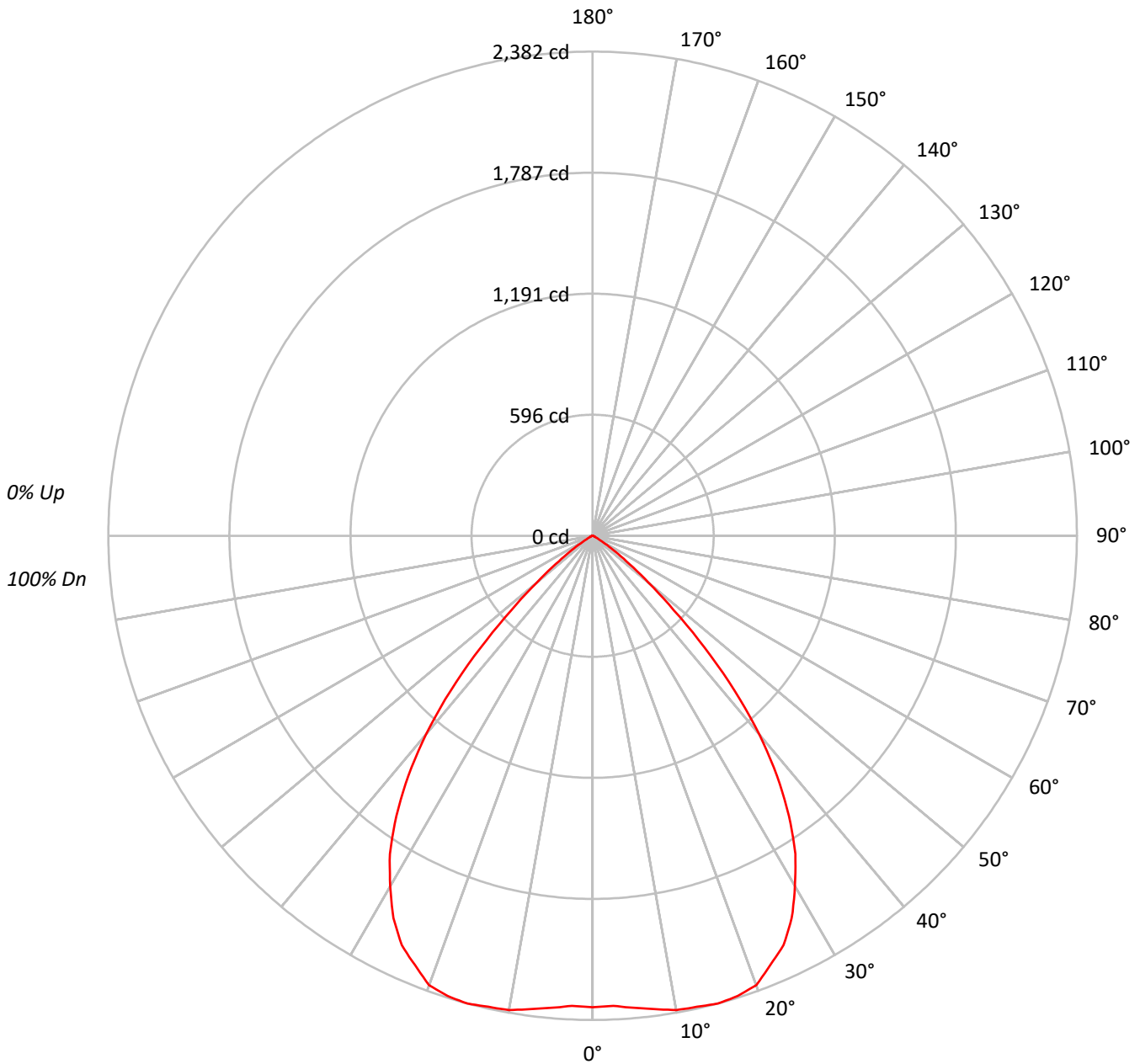
Lumens per Lamp: N/A
Luminaire Lumens: 3712.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	127128
5°	128301
10°	131895
15°	135194
20°	137247
25°	134409
30°	126013
35°	112665
40°	91257
45°	60363
50°	30515
55°	12874
60°	4144
65°	1634
70°	1362
75°	890
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	6.0
10°-20°	672.4	18.1
20°-30°	1013.6	27.3
30°-40°	1037.5	27.9
40°-50°	604.4	16.3
50°-60°	138.9	3.7
60°-70°	17.1	0.5
70°-80°	4.4	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°	1909.7	51.4
0°-40°	2947.2	79.4
0°-60°	3690.5	99.4
0°-90°	3712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2319	
5°	2332	224
15°	2382	672
25°	2222	1014
35°	1684	1037
45°	779	604
55°	135	139
65°	13	17
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2319.0
2.5°	2314.7
5°	2331.5
7.5°	2348.3
10°	2369.4
12.5°	2373.6
15°	2382.1
17.5°	2373.6
20°	2352.6
22.5°	2285.2
25°	2222.1
27.5°	2121.2
30°	1990.7
32.5°	1856.0
35°	1683.5
37.5°	1489.8
40°	1275.2
42.5°	1035.3
45°	778.6
47.5°	542.9
50°	357.8
52.5°	227.3
55°	134.7
57.5°	71.6
60°	37.8
62.5°	21.0
65°	12.6
67.5°	12.6
70°	8.5
72.5°	4.2
75°	4.2
77.5°	4.2
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)