

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: P576128

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P202739)
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-90-40 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

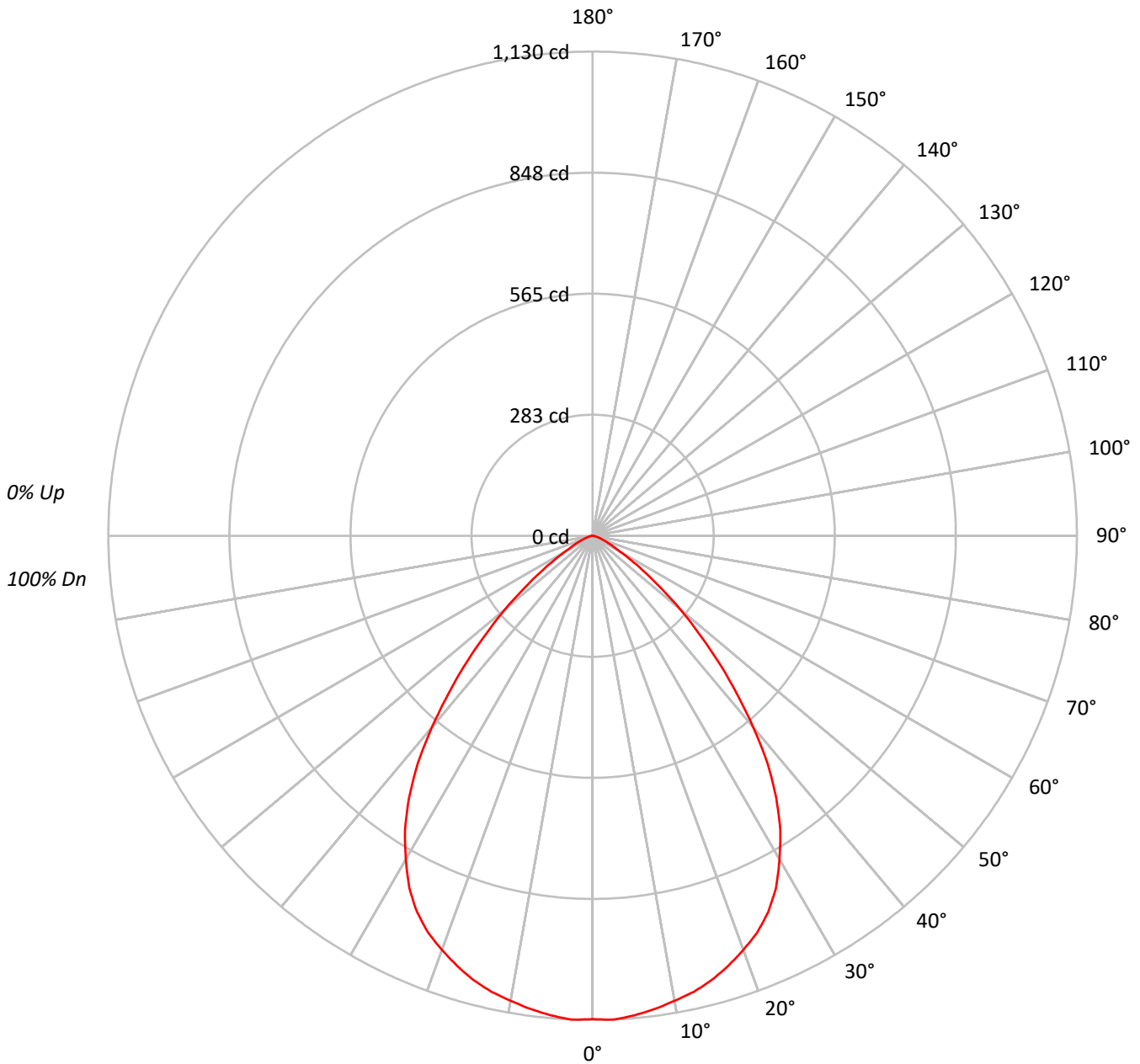
Lumens per Lamp: N/A
Luminaire Lumens: 1829.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

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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	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	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91																											
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																											
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73																											
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65																											
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59																											
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53																											
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49																											
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44																											
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41																											
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	61843
5°	61820
10°	61344
15°	60931
20°	60007
25°	58630
30°	55205
35°	49965
40°	41721
45°	31965
50°	22643
55°	14270
60°	8048
65°	5228
70°	3414
75°	2499
80°	1515
85°	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	5.8
10°-20°	302.3	16.5
20°-30°	443.3	24.2
30°-40°	461.3	25.2
40°-50°	319.2	17.5
50°-60°	139.0	7.6
60°-70°	42.6	2.3
70°-80°	12.8	0.7
80°-90°	2.0	0.1
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°	852.2	46.6
0°-40°	1313.5	71.8
0°-60°	1771.6	96.9
0°-90°	1829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1829.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1128	
5°	1123	107
15°	1074	302
25°	969	443
35°	747	461
45°	412	319
55°	149	139
65°	40	43
75°	12	13
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1128.1
2.5°	1130.4
5°	1123.4
7.5°	1113.9
10°	1102.0
12.5°	1090.1
15°	1073.6
17.5°	1052.2
20°	1028.6
22.5°	1002.5
25°	969.3
27.5°	926.7
30°	872.1
32.5°	815.2
35°	746.6
37.5°	670.7
40°	583.0
42.5°	495.3
45°	412.3
47.5°	334.1
50°	265.5
52.5°	201.5
55°	149.3
57.5°	106.7
60°	73.4
62.5°	54.5
65°	40.3
67.5°	30.8
70°	21.3
72.5°	16.6
75°	11.8
77.5°	7.1
80°	4.8
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)