

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: P576558

Luminaire Tested: **FLD6C-30-D010 FEU6C-X-90-27 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576558
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-30-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

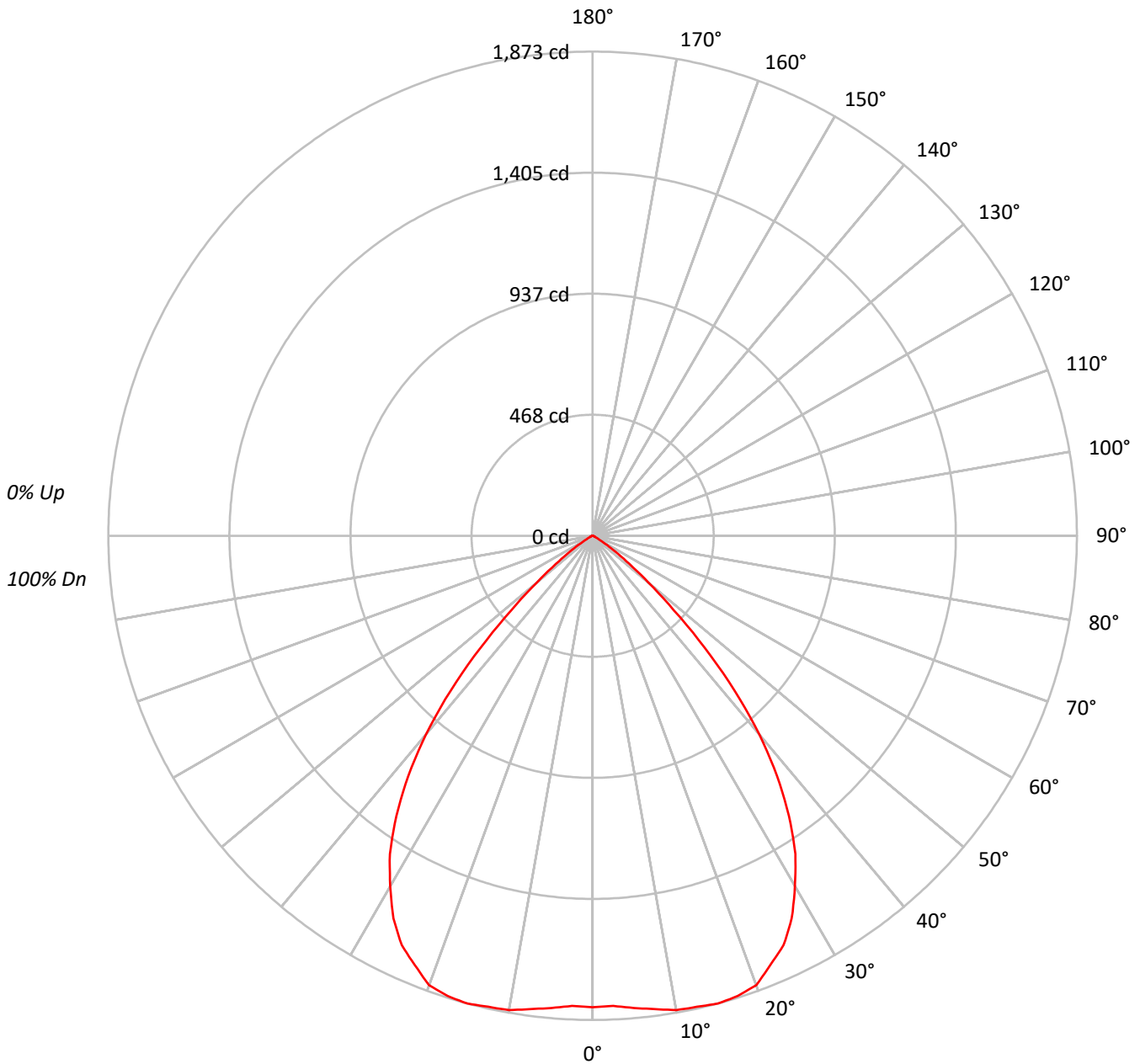
Lumens per Lamp: N/A
Luminaire Lumens: 2919.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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									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	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°	99970
5°	100897
10°	103717
15°	106312
20°	107926
25°	105696
30°	99091
35°	88599
40°	71763
45°	47470
50°	23991
55°	10122
60°	3267
65°	1284
70°	1074
75°	699
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	6.0
10°-20°	528.8	18.1
20°-30°	797.1	27.3
30°-40°	815.8	27.9
40°-50°	475.3	16.3
50°-60°	109.2	3.7
60°-70°	13.4	0.5
70°-80°	3.5	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°	1501.7	51.4
0°-40°	2317.6	79.4
0°-60°	2902.1	99.4
0°-90°	2919.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2919.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1824	
5°	1834	176
15°	1873	529
25°	1747	797
35°	1324	816
45°	612	475
55°	106	109
65°	10	13
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1823.6
2.5°	1820.2
5°	1833.5
7.5°	1846.7
10°	1863.2
12.5°	1866.5
15°	1873.2
17.5°	1866.5
20°	1850.0
22.5°	1797.0
25°	1747.4
27.5°	1668.0
30°	1565.4
32.5°	1459.5
35°	1323.9
37.5°	1171.5
40°	1002.8
42.5°	814.1
45°	612.3
47.5°	426.9
50°	281.3
52.5°	178.8
55°	105.9
57.5°	56.3
60°	29.8
62.5°	16.5
65°	9.9
67.5°	9.9
70°	6.7
72.5°	3.3
75°	3.3
77.5°	3.3
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)