

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: P575828

Luminaire Tested: **FLD6C-15-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575828
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-15-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

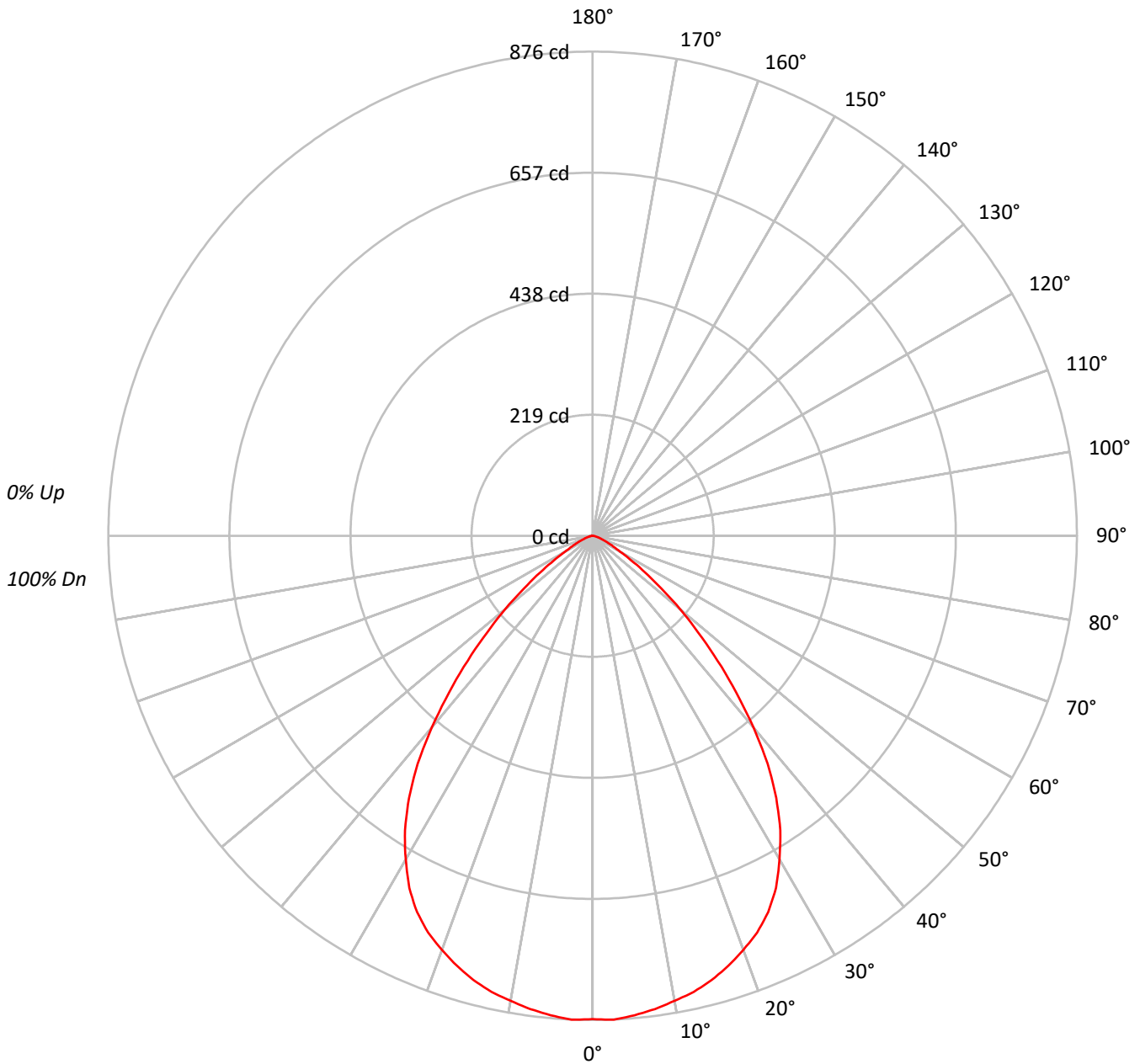
Lumens per Lamp: N/A
Luminaire Lumens: 1418.0 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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									20																	
RC	80									70									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°	47946
5°	47925
10°	47561
15°	47242
20°	46519
25°	45456
30°	42804
35°	38735
40°	32346
45°	24786
50°	17552
55°	11068
60°	6239
65°	4047
70°	2645
75°	1949
80°	1168
85°	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	5.8
10°-20°	234.4	16.5
20°-30°	343.7	24.2
30°-40°	357.7	25.2
40°-50°	247.4	17.5
50°-60°	107.7	7.6
60°-70°	33.0	2.3
70°-80°	9.9	0.7
80°-90°	1.5	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°	660.7	46.6
0°-40°	1018.3	71.8
0°-60°	1373.5	96.9
0°-90°	1418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	875	
5°	871	83
15°	832	234
25°	752	344
35°	579	358
45°	320	247
55°	116	108
65°	31	33
75°	9	10
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	874.6
2.5°	876.4
5°	870.9
7.5°	863.6
10°	854.4
12.5°	845.2
15°	832.4
17.5°	815.8
20°	797.4
22.5°	777.2
25°	751.5
27.5°	718.4
30°	676.2
32.5°	632.0
35°	578.8
37.5°	520.0
40°	452.0
42.5°	384.0
45°	319.7
47.5°	259.0
50°	205.8
52.5°	156.2
55°	115.8
57.5°	82.7
60°	56.9
62.5°	42.3
65°	31.2
67.5°	23.9
70°	16.5
72.5°	12.9
75°	9.2
77.5°	5.5
80°	3.7
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)