

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: P575808

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
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-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 4000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

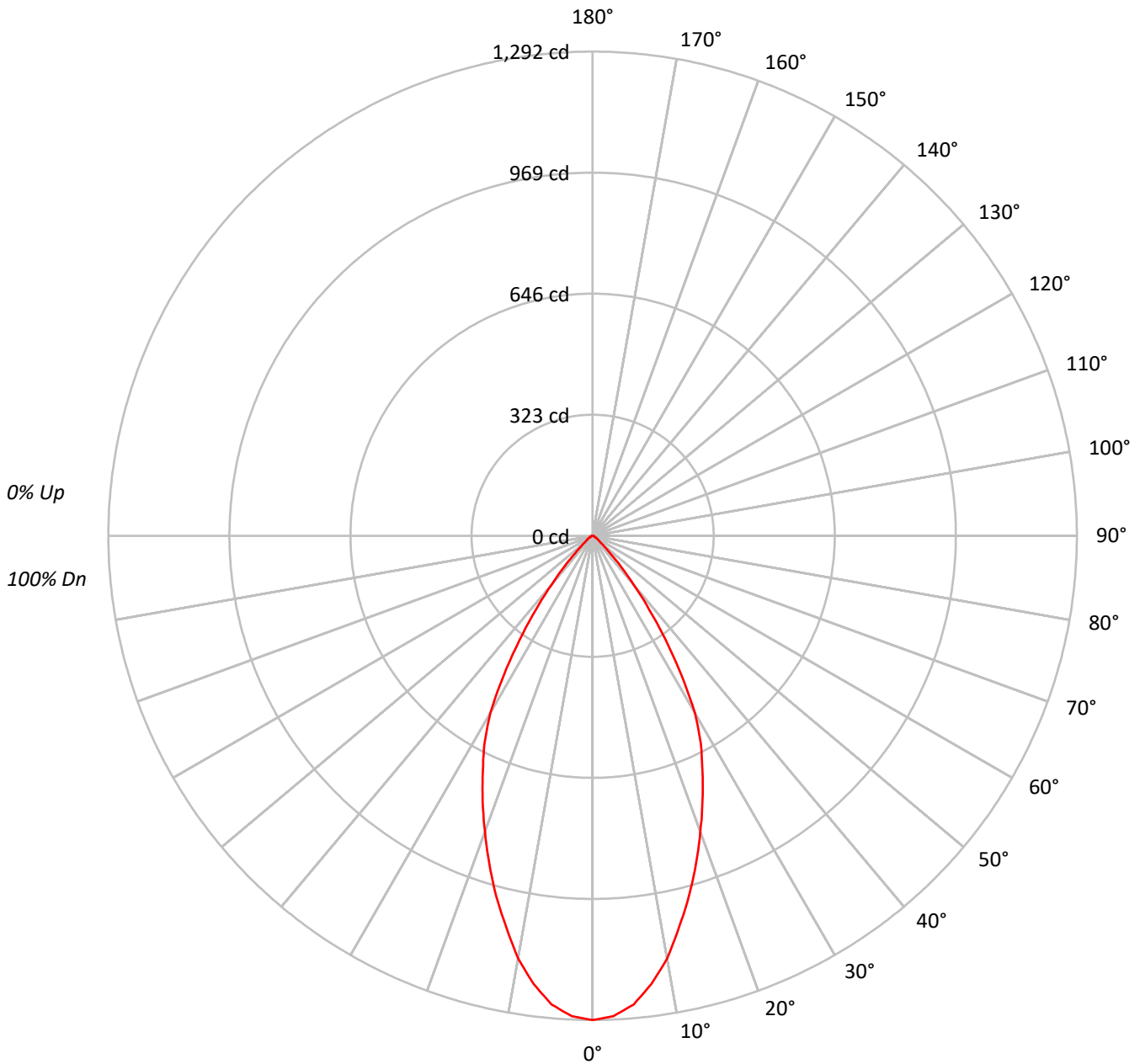
Lumens per Lamp: N/A
Luminaire Lumens: 1007.9 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									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	100	100	100	100	100	100	100	100	100	100																	
	1	113	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93	93	93	93	93	93	93	93	93	93	93																	
	2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87	87	87	87	87	87	87	87	87	87	87																	
	3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81	81	81	81	81	81	81	81	81	81	81																	
	4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75	75	75	75	75	75	75	75	75	75	75																	
	5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70	70	70	70	70	70	70	70	70	70	70																	
	6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65	65	65	65	65	65	65	65	65	65	65																	
	7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61	61	61	61	61	61	61	61	61	61	61																	
	8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58	58	58	58	58	58	58	58	58	58	58																	
	9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54	54	54	54	54	54	54	54	54	54	54																	
	10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51	51	51	51	51	51	51	51	51	51	51																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70839
5°	69084
10°	63743
15°	56436
20°	49004
25°	41912
30°	34556
35°	22754
40°	12230
45°	5419
50°	2192
55°	1587
60°	1009
65°	713
70°	593
75°	381
80°	568
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	11.5
10°-20°	277.1	27.5
20°-30°	317.4	31.5
30°-40°	213.3	21.2
40°-50°	60.9	6.0
50°-60°	14.9	1.5
60°-70°	5.7	0.6
70°-80°	2.2	0.2
80°-90°	0.2	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°	710.8	70.5
0°-40°	924.0	91.7
0°-60°	999.9	99.2
0°-90°	1007.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1007.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1292	
5°	1255	116
15°	994	277
25°	693	317
35°	340	213
45°	70	61
55°	17	15
65°	6	6
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1292.2
2.5°	1283.0
5°	1255.4
7.5°	1205.7
10°	1145.1
12.5°	1067.9
15°	994.4
17.5°	917.2
20°	840.0
22.5°	766.5
25°	692.9
27.5°	624.9
30°	545.9
32.5°	441.1
35°	340.0
37.5°	248.1
40°	170.9
42.5°	112.1
45°	69.9
47.5°	42.3
50°	25.7
52.5°	20.2
55°	16.6
57.5°	12.9
60°	9.2
62.5°	7.3
65°	5.5
67.5°	3.7
70°	3.7
72.5°	1.8
75°	1.8
77.5°	1.8
80°	1.8
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)