

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: P579488

Luminaire Tested: **FLD6C-75-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579488
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-75-D010 FEU6C-X-90-50 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

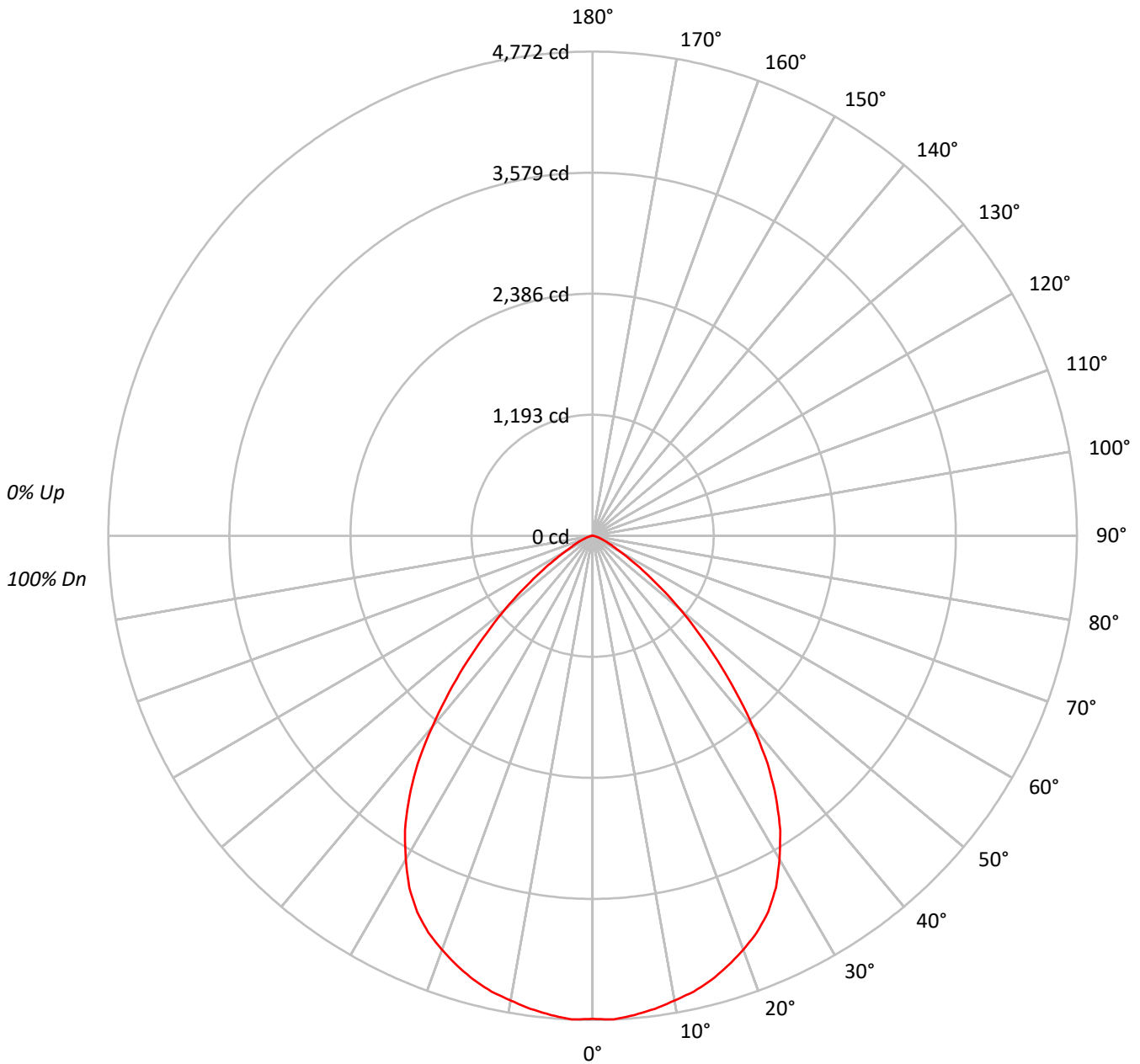
Lumens per Lamp: N/A
Luminaire Lumens: 7720.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	109	106	103	110	107	104	101	103	100	98	99	97	95	95	94	93	91			91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73			73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			65
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59			59
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	41			41
10	62	51	44	40	61	50	44	39	50	43	39	49	43	39	48	43	39	38			38

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	261021
5°	260928
10°	258924
15°	257186
20°	253270
25°	247484
30°	233023
35°	210881
40°	176094
45°	134929
50°	95562
55°	60251
60°	33989
65°	22065
70°	14409
75°	10590
80°	6346
85°	6353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.7	5.8
10°-20°	1276.1	16.5
20°-30°	1871.0	24.2
30°-40°	1947.3	25.2
40°-50°	1347.2	17.5
50°-60°	586.6	7.6
60°-70°	179.9	2.3
70°-80°	53.9	0.7
80°-90°	8.2	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°	3596.9	46.6
0°-40°	5544.1	71.8
0°-60°	7478.0	96.9
0°-90°	7720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7720.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4761	
5°	4742	450
15°	4532	1276
25°	4092	1871
35°	3151	1947
45°	1740	1347
55°	630	587
65°	170	180
75°	50	54
85°	10	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4761.4
2.5°	4771.5
5°	4741.6
7.5°	4701.7
10°	4651.4
12.5°	4601.4
15°	4531.6
17.5°	4441.4
20°	4341.4
22.5°	4231.4
25°	4091.5
27.5°	3911.3
30°	3681.2
32.5°	3441.0
35°	3151.1
37.5°	2831.1
40°	2460.7
42.5°	2090.7
45°	1740.4
47.5°	1410.3
50°	1120.5
52.5°	850.4
55°	630.4
57.5°	450.2
60°	310.0
62.5°	230.1
65°	170.1
67.5°	130.2
70°	89.9
72.5°	70.1
75°	50.0
77.5°	29.8
80°	20.1
82.5°	10.1
85°	10.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)