

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: P578228

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578228
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-55-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

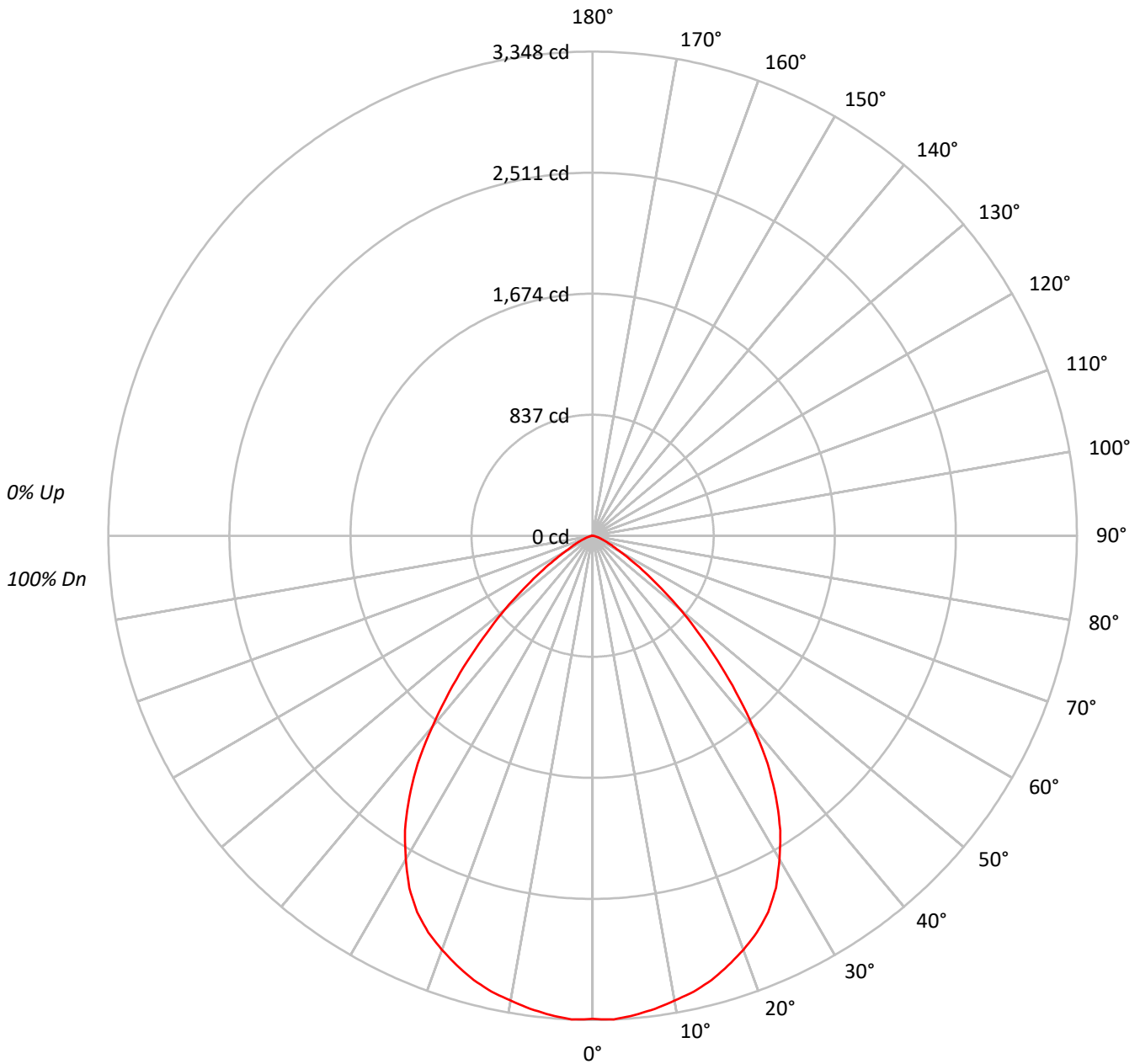
Lumens per Lamp: N/A
Luminaire Lumens: 5416.9 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
Input Current (Ain): 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			
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°	183154
5°	183089
10°	181682
15°	180466
20°	177716
25°	173653
30°	163506
35°	147974
40°	123560
45°	94676
50°	67051
55°	42273
60°	23847
65°	15475
70°	10114
75°	7434
80°	4451
85°	4466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.6	5.8
10°-20°	895.4	16.5
20°-30°	1312.9	24.2
30°-40°	1366.4	25.2
40°-50°	945.3	17.5
50°-60°	411.6	7.6
60°-70°	126.2	2.3
70°-80°	37.8	0.7
80°-90°	5.8	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°	2523.8	46.6
0°-40°	3890.2	71.8
0°-60°	5247.1	96.9
0°-90°	5416.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5416.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3341	
5°	3327	316
15°	3180	895
25°	2871	1313
35°	2211	1366
45°	1221	945
55°	442	412
65°	119	126
75°	35	38
85°	7	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3341.0
2.5°	3348.1
5°	3327.1
7.5°	3299.1
10°	3263.8
12.5°	3228.7
15°	3179.8
17.5°	3116.4
20°	3046.3
22.5°	2969.1
25°	2870.9
27.5°	2744.5
30°	2583.0
32.5°	2414.5
35°	2211.1
37.5°	1986.5
40°	1726.6
42.5°	1467.0
45°	1221.2
47.5°	989.6
50°	786.2
52.5°	596.7
55°	442.3
57.5°	315.9
60°	217.5
62.5°	161.5
65°	119.3
67.5°	91.3
70°	63.1
72.5°	49.2
75°	35.1
77.5°	20.9
80°	14.1
82.5°	7.1
85°	7.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)