

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: P577388

Luminaire Tested: **FLD6C-40-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577388
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-40-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

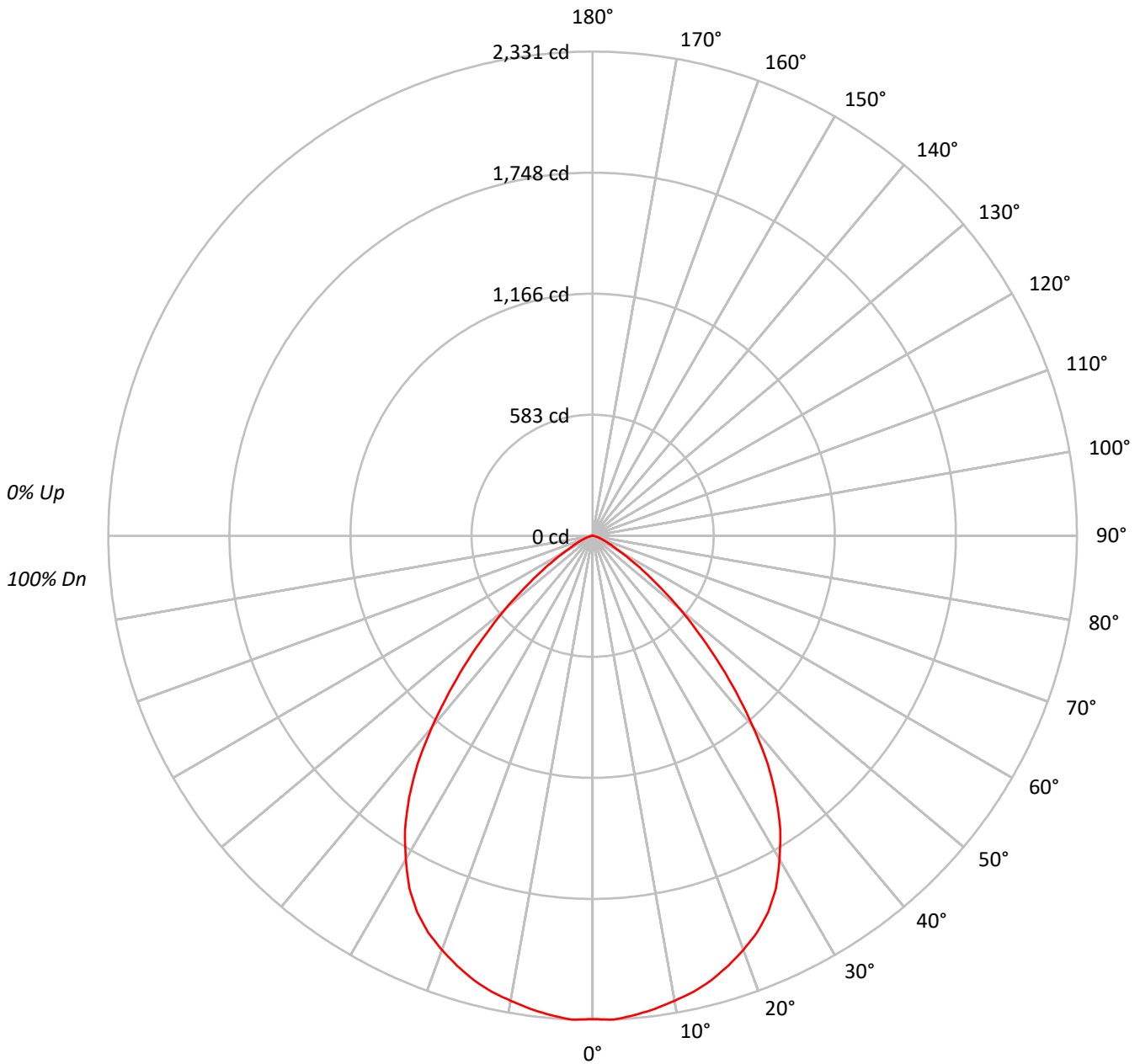
Lumens per Lamp: N/A
Luminaire Lumens: 3772.0 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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			
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°	127534
5°	127493
10°	126512
15°	125665
20°	123747
25°	120920
30°	113853
35°	103041
40°	86040
45°	65929
50°	46694
55°	29437
60°	16611
65°	10779
70°	7036
75°	5168
80°	3094
85°	3082



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	5.8
10°-20°	623.5	16.5
20°-30°	914.2	24.2
30°-40°	951.5	25.2
40°-50°	658.3	17.5
50°-60°	286.6	7.6
60°-70°	87.9	2.3
70°-80°	26.3	0.7
80°-90°	4.0	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°	1757.4	46.6
0°-40°	2708.9	71.8
0°-60°	3653.8	96.9
0°-90°	3772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3772.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2326	
5°	2317	220
15°	2214	624
25°	1999	914
35°	1540	951
45°	850	658
55°	308	287
65°	83	88
75°	24	26
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2326.4
2.5°	2331.4
5°	2316.8
7.5°	2297.3
10°	2272.7
12.5°	2248.2
15°	2214.2
17.5°	2170.1
20°	2121.2
22.5°	2067.5
25°	1999.1
27.5°	1911.1
30°	1798.6
32.5°	1681.3
35°	1539.7
37.5°	1383.3
40°	1202.3
42.5°	1021.5
45°	850.4
47.5°	689.1
50°	547.5
52.5°	415.5
55°	308.0
57.5°	220.0
60°	151.5
62.5°	112.4
65°	83.1
67.5°	63.6
70°	43.9
72.5°	34.3
75°	24.4
77.5°	14.6
80°	9.8
82.5°	4.9
85°	4.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)