

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: P579848

Luminaire Tested: **FLD6C-90-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P579848
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-90-D010 FEU6C-X-90-27 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

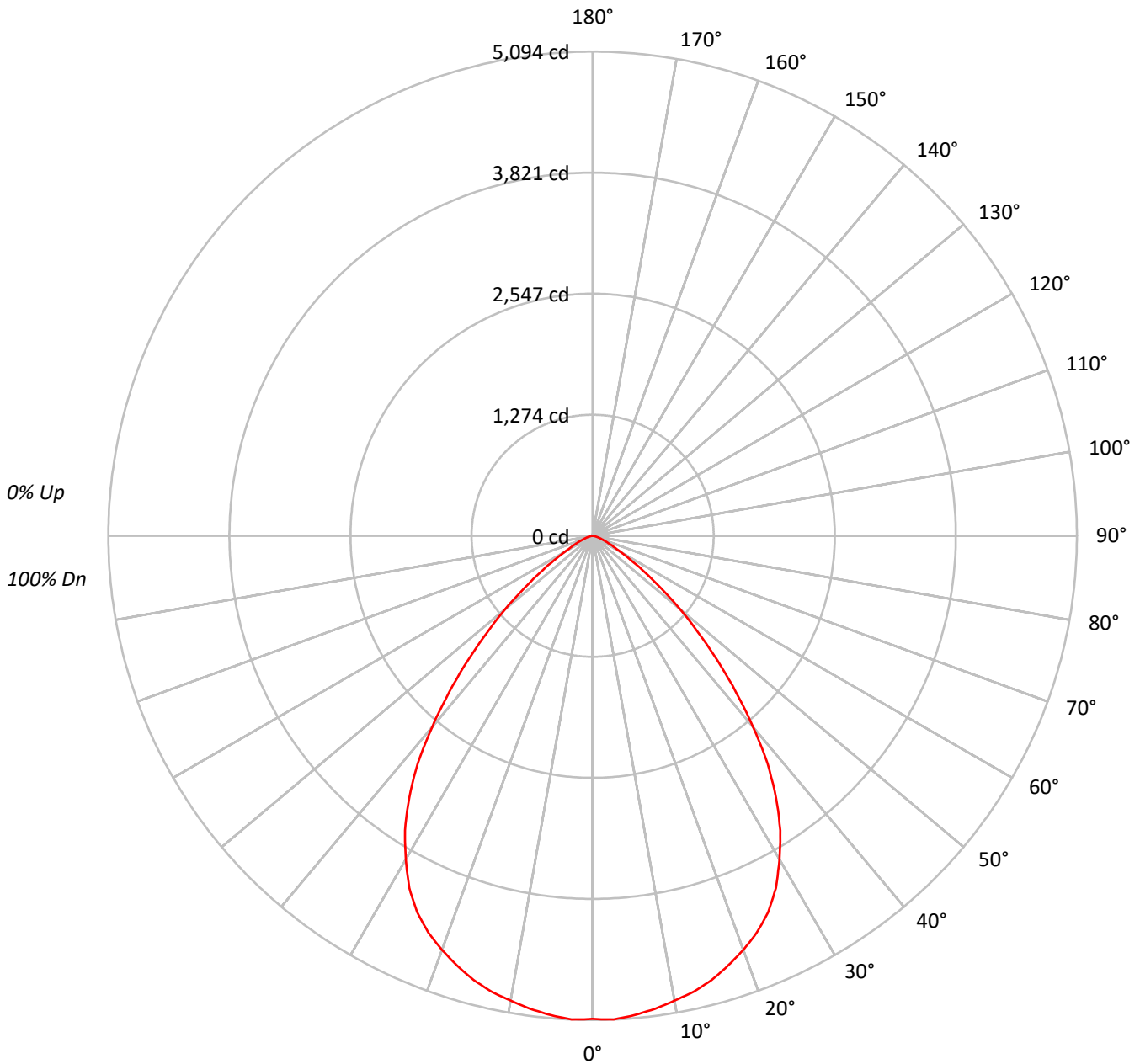
Lumens per Lamp: N/A
Luminaire Lumens: 8242.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 97.1
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°	278673
5°	278571
10°	276431
15°	274576
20°	270399
25°	264215
30°	248779
35°	225143
40°	188002
45°	144054
50°	102026
55°	64323
60°	36280
65°	23556
70°	15387
75°	11311
80°	6787
85°	6730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.1	5.8
10°-20°	1362.4	16.5
20°-30°	1997.6	24.2
30°-40°	2078.9	25.2
40°-50°	1438.3	17.5
50°-60°	626.3	7.6
60°-70°	192.1	2.3
70°-80°	57.6	0.7
80°-90°	8.7	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°	3840.1	46.6
0°-40°	5919.0	71.8
0°-60°	7983.6	96.9
0°-90°	8242.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8242.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5083	
5°	5062	480
15°	4838	1362
25°	4368	1998
35°	3364	2079
45°	1858	1438
55°	673	626
65°	182	192
75°	53	58
85°	11	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5083.4
2.5°	5094.1
5°	5062.2
7.5°	5019.6
10°	4965.9
12.5°	4912.5
15°	4838.0
17.5°	4741.7
20°	4635.0
22.5°	4517.5
25°	4368.1
27.5°	4175.8
30°	3930.1
32.5°	3673.6
35°	3364.2
37.5°	3022.5
40°	2627.1
42.5°	2232.1
45°	1858.1
47.5°	1505.7
50°	1196.3
52.5°	907.9
55°	673.0
57.5°	480.7
60°	330.9
62.5°	245.7
65°	181.6
67.5°	139.0
70°	96.0
72.5°	74.9
75°	53.4
77.5°	31.9
80°	21.5
82.5°	10.7
85°	10.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)