

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: P577628

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-40 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577628
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-45-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

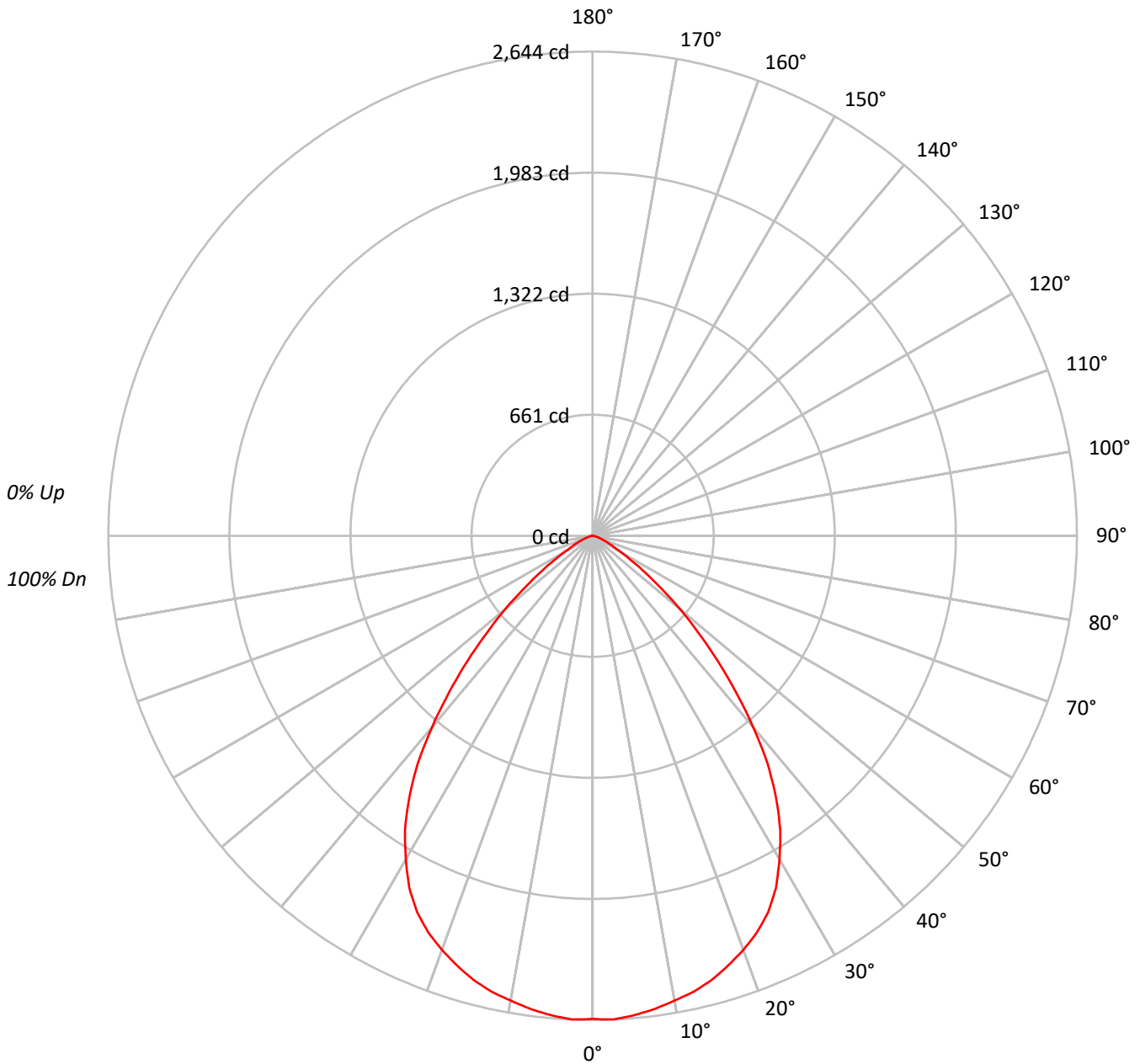
Lumens per Lamp: N/A
Luminaire Lumens: 4278.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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°	144643
5°	144596
10°	143479
15°	142521
20°	140351
25°	137143
30°	129127
35°	116861
40°	97583
45°	74775
50°	52953
55°	33385
60°	18836
65°	12232
70°	7982
75°	5867
80°	3536
85°	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	5.8
10°-20°	707.1	16.5
20°-30°	1036.8	24.2
30°-40°	1079.1	25.2
40°-50°	746.6	17.5
50°-60°	325.1	7.6
60°-70°	99.7	2.3
70°-80°	29.9	0.7
80°-90°	4.6	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°	1993.2	46.6
0°-40°	3072.2	71.8
0°-60°	4143.9	96.9
0°-90°	4278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4278.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2638	
5°	2628	249
15°	2511	707
25°	2267	1037
35°	1746	1079
45°	964	747
55°	349	325
65°	94	100
75°	28	30
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2638.5
2.5°	2644.1
5°	2627.6
7.5°	2605.4
10°	2577.5
12.5°	2549.8
15°	2511.2
17.5°	2461.2
20°	2405.8
22.5°	2344.8
25°	2267.3
27.5°	2167.4
30°	2039.9
32.5°	1906.8
35°	1746.2
37.5°	1568.8
40°	1363.6
42.5°	1158.5
45°	964.5
47.5°	781.5
50°	620.9
52.5°	471.3
55°	349.3
57.5°	249.5
60°	171.8
62.5°	127.5
65°	94.3
67.5°	72.1
70°	49.8
72.5°	38.9
75°	27.7
77.5°	16.5
80°	11.2
82.5°	5.6
85°	5.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)