

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: P577448

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-27 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577448
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-90-27 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

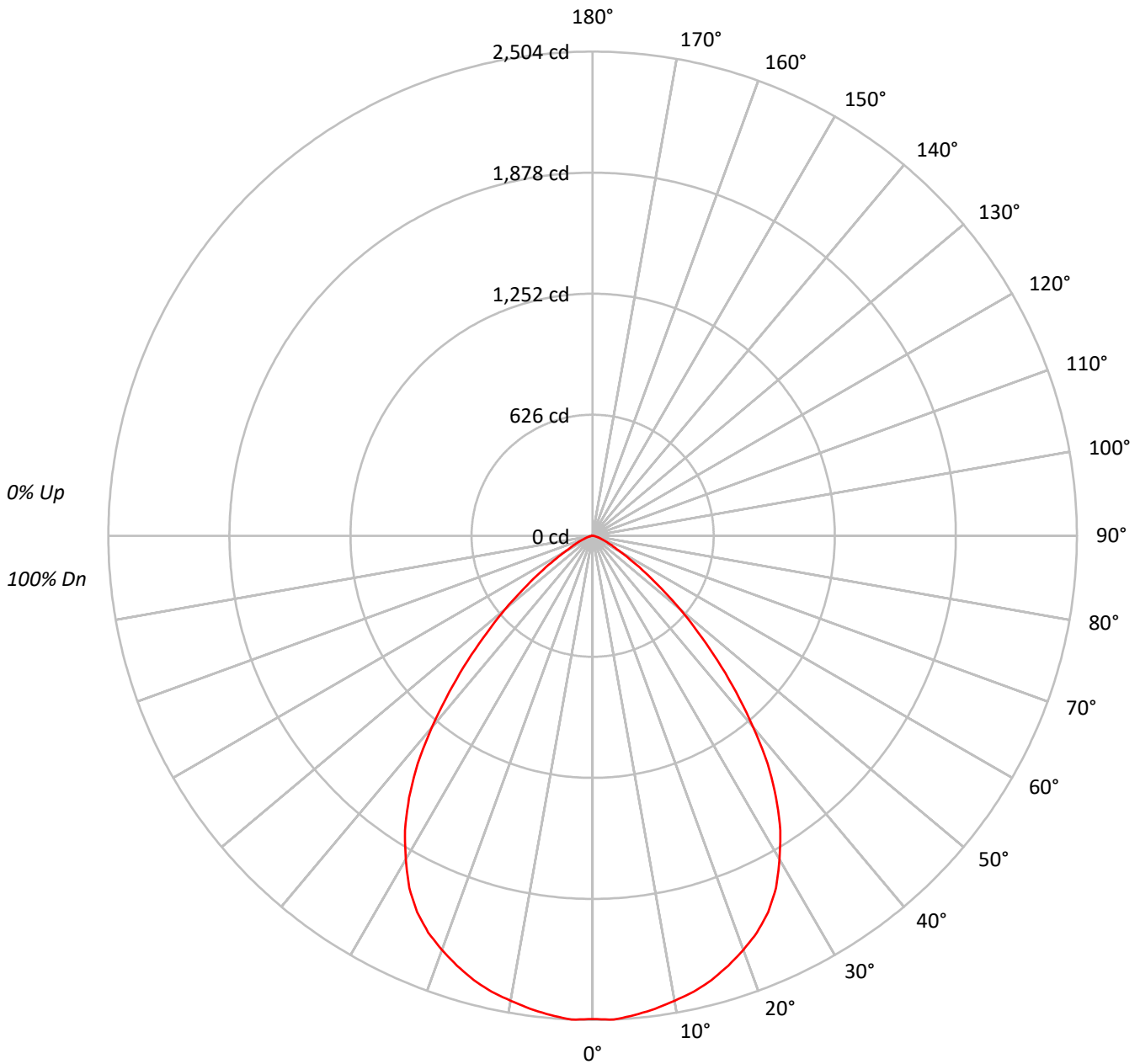
Lumens per Lamp: N/A
Luminaire Lumens: 4052.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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			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°	137001
5°	136952
10°	135903
15°	134989
20°	132936
25°	129897
30°	122304
35°	110684
40°	92430
45°	70821
50°	50156
55°	31626
60°	17838
65°	11584
70°	7565
75°	5549
80°	3346
85°	3334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	5.8
10°-20°	669.8	16.5
20°-30°	982.0	24.2
30°-40°	1022.1	25.2
40°-50°	707.1	17.5
50°-60°	307.9	7.6
60°-70°	94.4	2.3
70°-80°	28.3	0.7
80°-90°	4.3	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°	1887.9	46.6
0°-40°	2909.9	71.8
0°-60°	3925.0	96.9
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2499	
5°	2489	236
15°	2378	670
25°	2148	982
35°	1654	1022
45°	914	707
55°	331	308
65°	89	94
75°	26	28
85°	5	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2499.1
2.5°	2504.4
5°	2488.7
7.5°	2467.8
10°	2441.4
12.5°	2415.1
15°	2378.5
17.5°	2331.1
20°	2278.7
22.5°	2220.9
25°	2147.5
27.5°	2052.9
30°	1932.1
32.5°	1806.1
35°	1653.9
37.5°	1486.0
40°	1291.6
42.5°	1097.3
45°	913.5
47.5°	740.2
50°	588.1
52.5°	446.4
55°	330.9
57.5°	236.3
60°	162.7
62.5°	120.8
65°	89.3
67.5°	68.3
70°	47.2
72.5°	36.8
75°	26.2
77.5°	15.7
80°	10.6
82.5°	5.3
85°	5.3
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)