

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: P577928

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577928
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-50-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

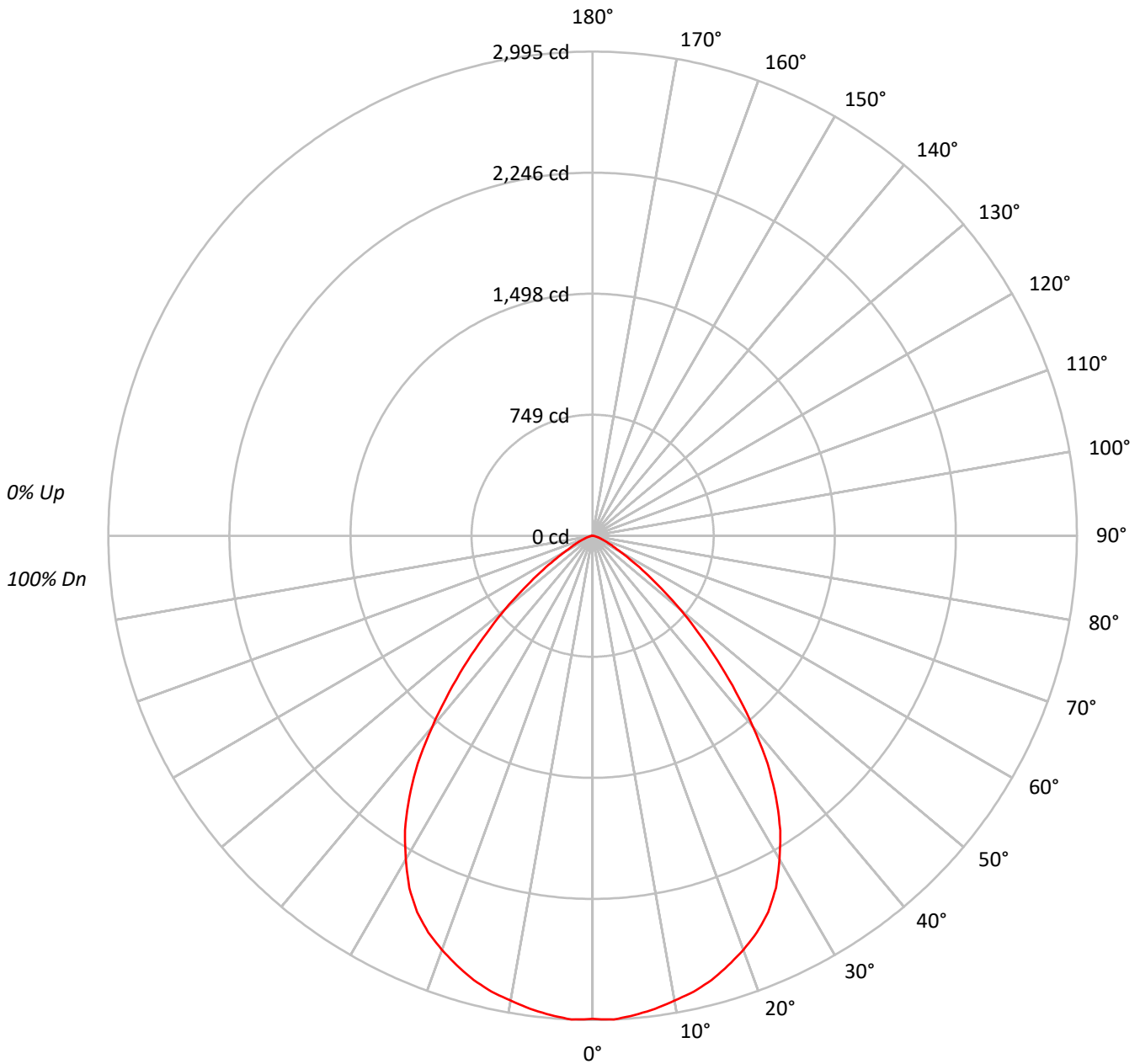
Lumens per Lamp: N/A
Luminaire Lumens: 4846.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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°	163847
5°	163790
10°	162533
15°	161442
20°	158984
25°	155350
30°	146276
35°	132374
40°	110536
45°	84699
50°	59989
55°	37819
60°	21336
65°	13854
70°	9040
75°	6651
80°	3978
85°	3963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	5.8
10°-20°	801.0	16.5
20°-30°	1174.5	24.2
30°-40°	1222.3	25.2
40°-50°	845.7	17.5
50°-60°	368.2	7.6
60°-70°	112.9	2.3
70°-80°	33.8	0.7
80°-90°	5.1	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°	2257.8	46.6
0°-40°	3480.2	71.8
0°-60°	4694.1	96.9
0°-90°	4846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4846.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2989	
5°	2976	282
15°	2845	801
25°	2568	1174
35°	1978	1222
45°	1092	846
55°	396	368
65°	107	113
75°	31	34
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2988.8
2.5°	2995.2
5°	2976.4
7.5°	2951.4
10°	2919.8
12.5°	2888.4
15°	2844.6
17.5°	2787.9
20°	2725.2
22.5°	2656.1
25°	2568.3
27.5°	2455.2
30°	2310.8
32.5°	2160.0
35°	1978.0
37.5°	1777.1
40°	1544.6
42.5°	1312.4
45°	1092.5
47.5°	885.3
50°	703.4
52.5°	533.8
55°	395.7
57.5°	282.6
60°	194.6
62.5°	144.5
65°	106.8
67.5°	81.7
70°	56.4
72.5°	44.0
75°	31.4
77.5°	18.7
80°	12.6
82.5°	6.3
85°	6.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)