

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: P577428

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

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203666)
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-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

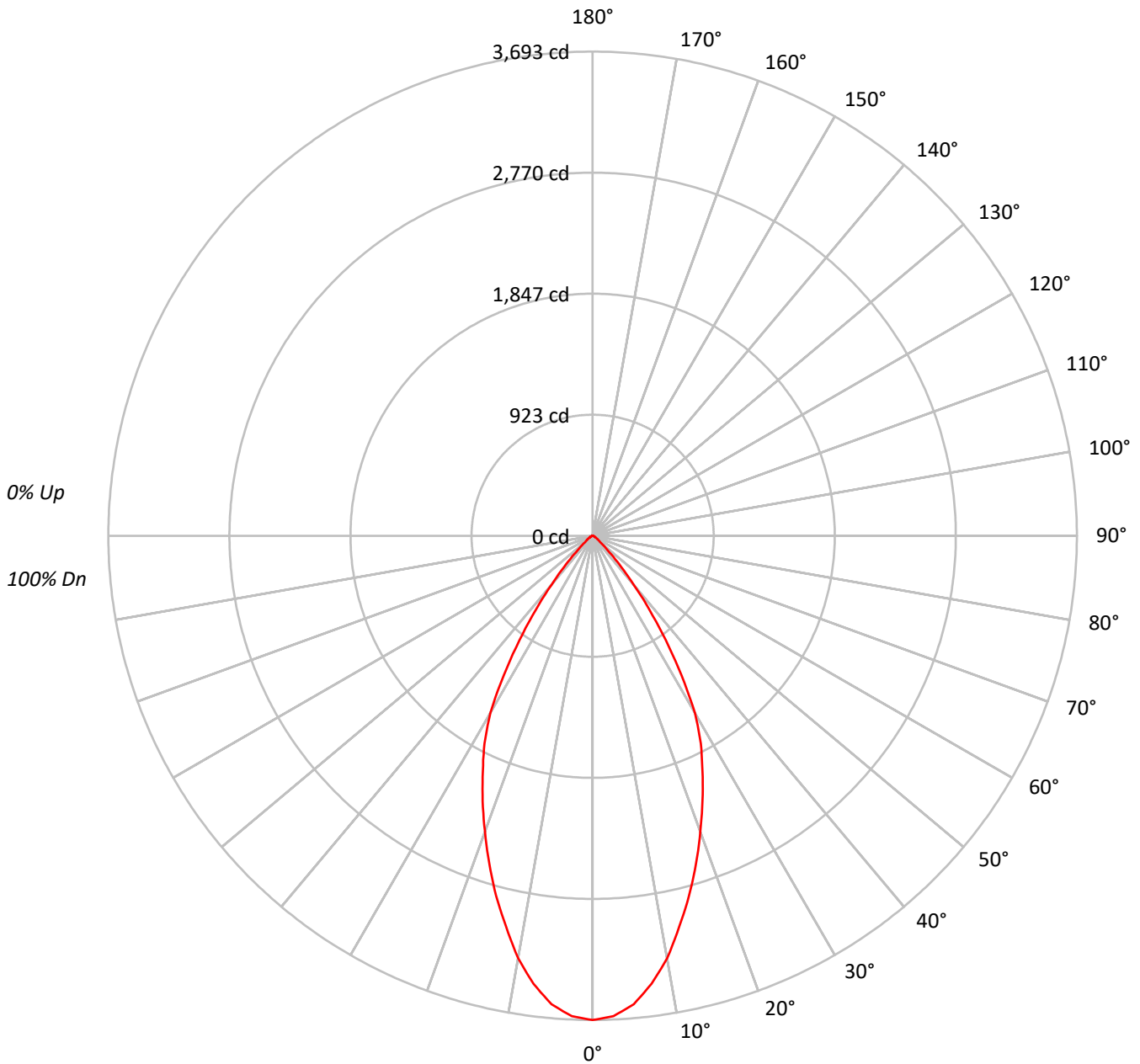
Lumens per Lamp: N/A
Luminaire Lumens: 2881.0 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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			
1	113	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	92	84	78	74	91	83	78	73	81	76	73	80	75	72	78	74	72	70			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	79	70	64	60	78	69	64	60	68	63	59	67	63	59	66	62	59	58			
9	76	66	60	56	75	66	60	56	65	59	56	64	59	56	63	59	55	54			
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	202462
5°	197446
10°	182189
15°	161301
20°	140053
25°	119795
30°	98762
35°	65036
40°	34966
45°	15482
50°	6277
55°	4530
60°	2873
65°	2062
70°	1699
75°	1123
80°	1673
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.1	11.5
10°-20°	792.0	27.5
20°-30°	907.3	31.5
30°-40°	609.6	21.2
40°-50°	174.2	6.0
50°-60°	42.6	1.5
60°-70°	16.2	0.6
70°-80°	6.3	0.2
80°-90°	0.7	0.0
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°	2031.4	70.5
0°-40°	2641.0	91.7
0°-60°	2857.8	99.2
0°-90°	2881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2881.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3693	
5°	3588	332
15°	2842	792
25°	1980	907
35°	972	610
45°	200	174
55°	47	43
65°	16	16
75°	5	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3693.2
2.5°	3666.9
5°	3588.0
7.5°	3446.1
10°	3272.9
12.5°	3052.1
15°	2842.1
17.5°	2621.5
20°	2400.7
22.5°	2190.7
25°	1980.5
27.5°	1786.1
30°	1560.2
32.5°	1260.7
35°	971.8
37.5°	709.2
40°	488.6
42.5°	320.4
45°	199.7
47.5°	120.8
50°	73.6
52.5°	57.7
55°	47.4
57.5°	36.8
60°	26.2
62.5°	20.9
65°	15.9
67.5°	10.6
70°	10.6
72.5°	5.3
75°	5.3
77.5°	5.3
80°	5.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)