

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: P575988

Luminaire Tested: **FLD6C-20-D010 FEU6C-X-90-30 F6X-N-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P575988
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-20-D010 FEU6C-X-90-30 F6X-N-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBNH TRIM

Light Source: -
Ballast/Driver: -

Summary

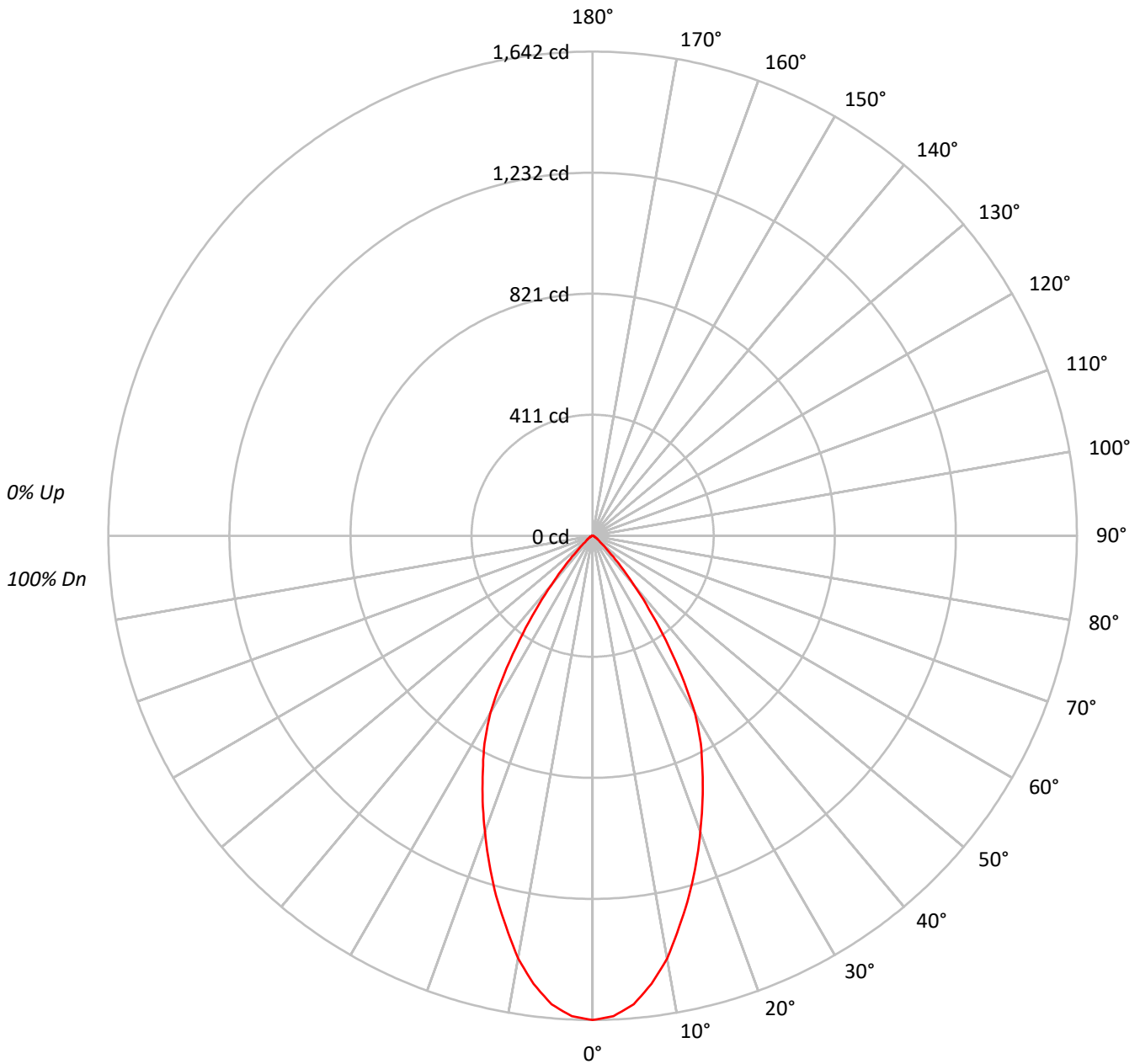
Lumens per Lamp: N/A
Luminaire Lumens: 1281.0 lumens
Efficiency: N/A
Efficacy: 58.8 lumens/watt
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.84
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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	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°	90020
5°	87794
10°	81011
15°	71720
20°	62270
25°	53265
30°	43912
35°	28917
40°	15543
45°	6884
50°	2789
55°	2017
60°	1283
65°	908
70°	753
75°	487
80°	726
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	11.5
10°-20°	352.1	27.5
20°-30°	403.4	31.5
30°-40°	271.0	21.2
40°-50°	77.4	6.0
50°-60°	19.0	1.5
60°-70°	7.2	0.6
70°-80°	2.7	0.2
80°-90°	0.3	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°	903.2	70.5
0°-40°	1174.3	91.7
0°-60°	1270.7	99.2
0°-90°	1281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1281.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1642	
5°	1595	148
15°	1264	352
25°	881	403
35°	432	271
45°	89	77
55°	21	19
65°	7	7
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1642.1
2.5°	1630.4
5°	1595.4
7.5°	1532.3
10°	1455.3
12.5°	1357.1
15°	1263.7
17.5°	1165.6
20°	1067.4
22.5°	974.1
25°	880.6
27.5°	794.2
30°	693.7
32.5°	560.6
35°	432.1
37.5°	315.3
40°	217.2
42.5°	142.5
45°	88.8
47.5°	53.7
50°	32.7
52.5°	25.7
55°	21.1
57.5°	16.4
60°	11.7
62.5°	9.3
65°	7.0
67.5°	4.7
70°	4.7
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)