

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: P577568

Luminaire Tested: **FLD6C-45-D010 FEU6C-X-90-35 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577568
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-90-35 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

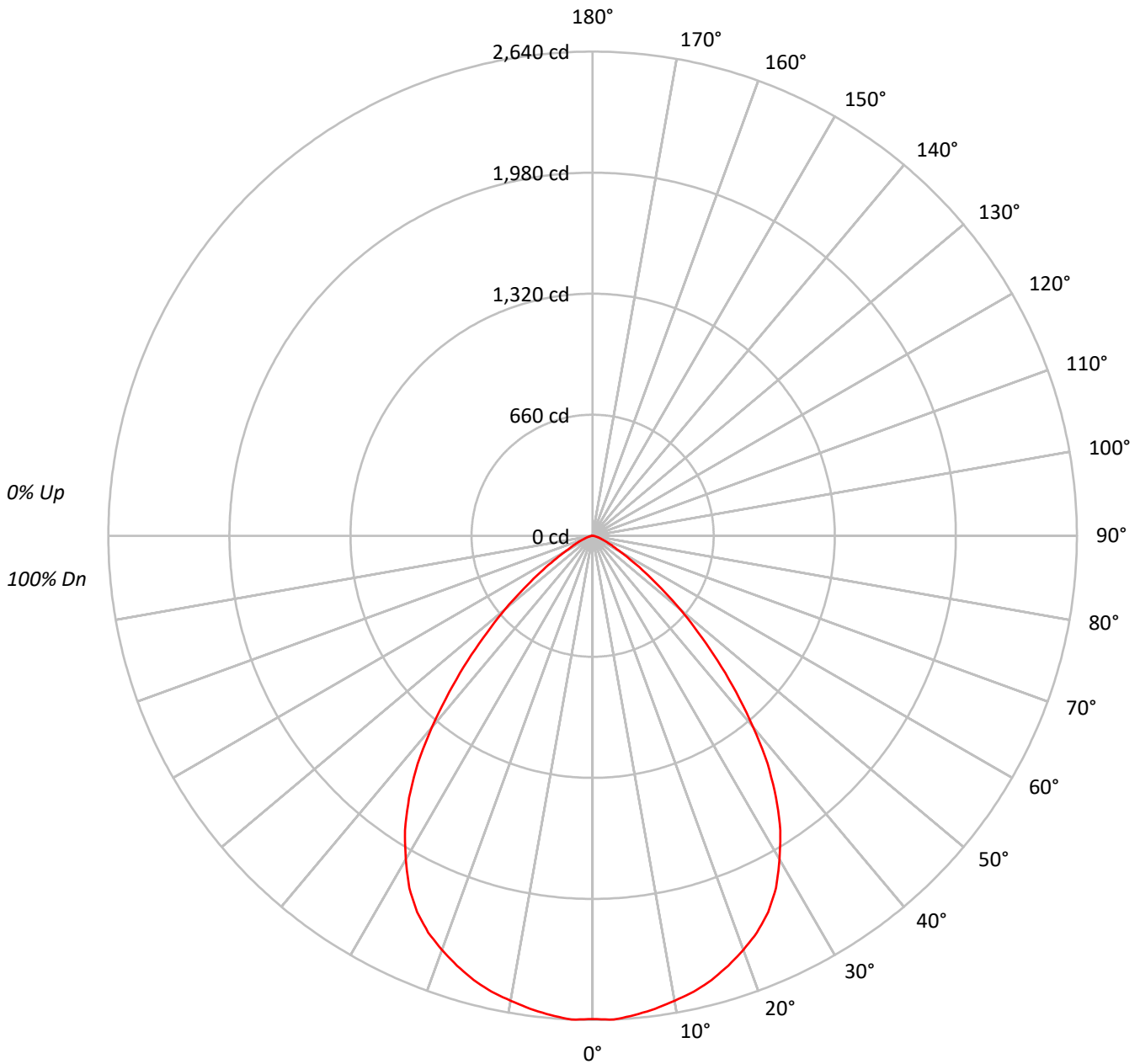
Lumens per Lamp: N/A
Luminaire Lumens: 4271.9 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	144440
5°	144392
10°	143278
15°	142322
20°	140152
25°	136949
30°	128950
35°	116694
40°	97447
45°	74667
50°	52877
55°	33337
60°	18803
65°	12206
70°	7966
75°	5867
80°	3504
85°	3522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	5.8
10°-20°	706.1	16.5
20°-30°	1035.4	24.2
30°-40°	1077.6	25.2
40°-50°	745.5	17.5
50°-60°	324.6	7.6
60°-70°	99.5	2.3
70°-80°	29.8	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°	1990.4	46.6
0°-40°	3067.9	71.8
0°-60°	4138.0	96.9
0°-90°	4271.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4271.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2635	
5°	2624	249
15°	2508	706
25°	2264	1035
35°	1744	1078
45°	963	746
55°	349	325
65°	94	100
75°	28	30
85°	6	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2634.8
2.5°	2640.4
5°	2623.9
7.5°	2601.8
10°	2573.9
12.5°	2546.3
15°	2507.7
17.5°	2457.7
20°	2402.4
22.5°	2341.5
25°	2264.1
27.5°	2164.4
30°	2037.1
32.5°	1904.1
35°	1743.7
37.5°	1566.6
40°	1361.7
42.5°	1156.9
45°	963.1
47.5°	780.4
50°	620.0
52.5°	470.6
55°	348.8
57.5°	249.1
60°	171.5
62.5°	127.4
65°	94.1
67.5°	72.0
70°	49.7
72.5°	38.8
75°	27.7
77.5°	16.5
80°	11.1
82.5°	5.6
85°	5.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)