

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: P577088

Luminaire Tested: **FLD6C-35-D010 FEU6C-X-90-50 F6X-W-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P577088
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-35-D010 FEU6C-X-90-50 F6X-W-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 5000K, 90 CRI LEDS, 6LBWH TRIM

Light Source: -
Ballast/Driver: -

Summary

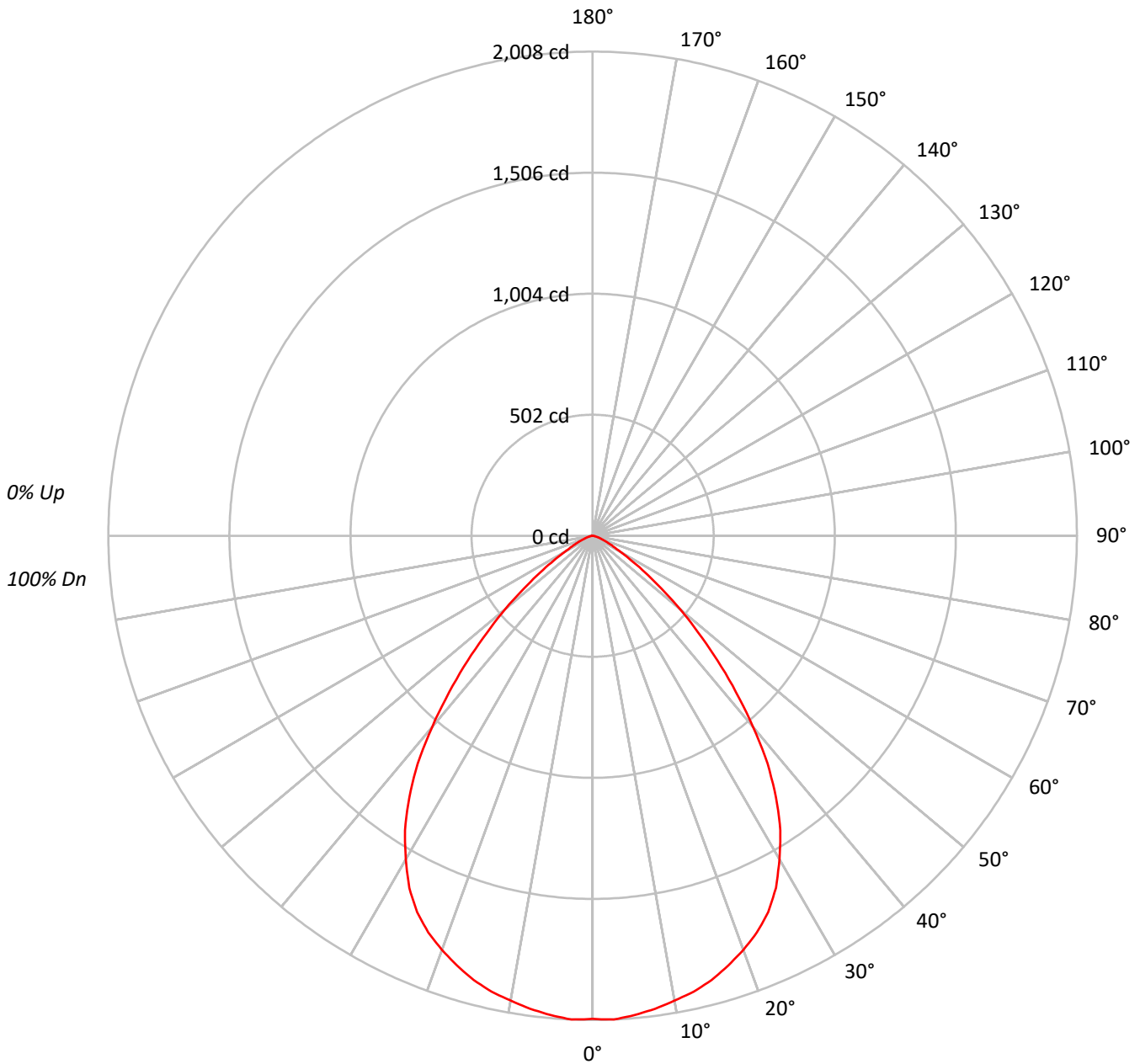
Lumens per Lamp: N/A
Luminaire Lumens: 3249.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	109854
5°	109812
10°	108971
15°	108241
20°	106590
25°	104153
30°	98066
35°	88753
40°	74110
45°	56789
50°	40220
55°	25356
60°	14308
65°	9288
70°	6059
75°	4448
80°	2683
85°	2642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	5.8
10°-20°	537.1	16.5
20°-30°	787.4	24.2
30°-40°	819.5	25.2
40°-50°	567.0	17.5
50°-60°	246.9	7.6
60°-70°	75.7	2.3
70°-80°	22.7	0.7
80°-90°	3.4	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°	1513.8	46.6
0°-40°	2333.3	71.8
0°-60°	3147.2	96.9
0°-90°	3249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3249.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2004	
5°	1996	189
15°	1907	537
25°	1722	787
35°	1326	820
45°	732	567
55°	265	247
65°	72	76
75°	21	23
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2003.9
2.5°	2008.1
5°	1995.5
7.5°	1978.7
10°	1957.6
12.5°	1936.5
15°	1907.2
17.5°	1869.2
20°	1827.1
22.5°	1780.8
25°	1721.9
27.5°	1646.1
30°	1549.2
32.5°	1448.2
35°	1326.2
37.5°	1191.5
40°	1035.6
42.5°	879.9
45°	732.5
47.5°	593.5
50°	471.6
52.5°	357.9
55°	265.3
57.5°	189.5
60°	130.5
62.5°	96.9
65°	71.6
67.5°	54.8
70°	37.8
72.5°	29.5
75°	21.0
77.5°	12.6
80°	8.5
82.5°	4.2
85°	4.2
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)