

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: P365641

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8030-F6LBXVM1-MW-BTR89BI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8030-F6LBXVM1-MW-BTR89BI  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,  
BOTTOM TRIM ACRYLIC, CLEAR RFI 0.125", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2963.0 lumens  
Efficiency: N/A  
Efficacy: 53.8 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.84  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

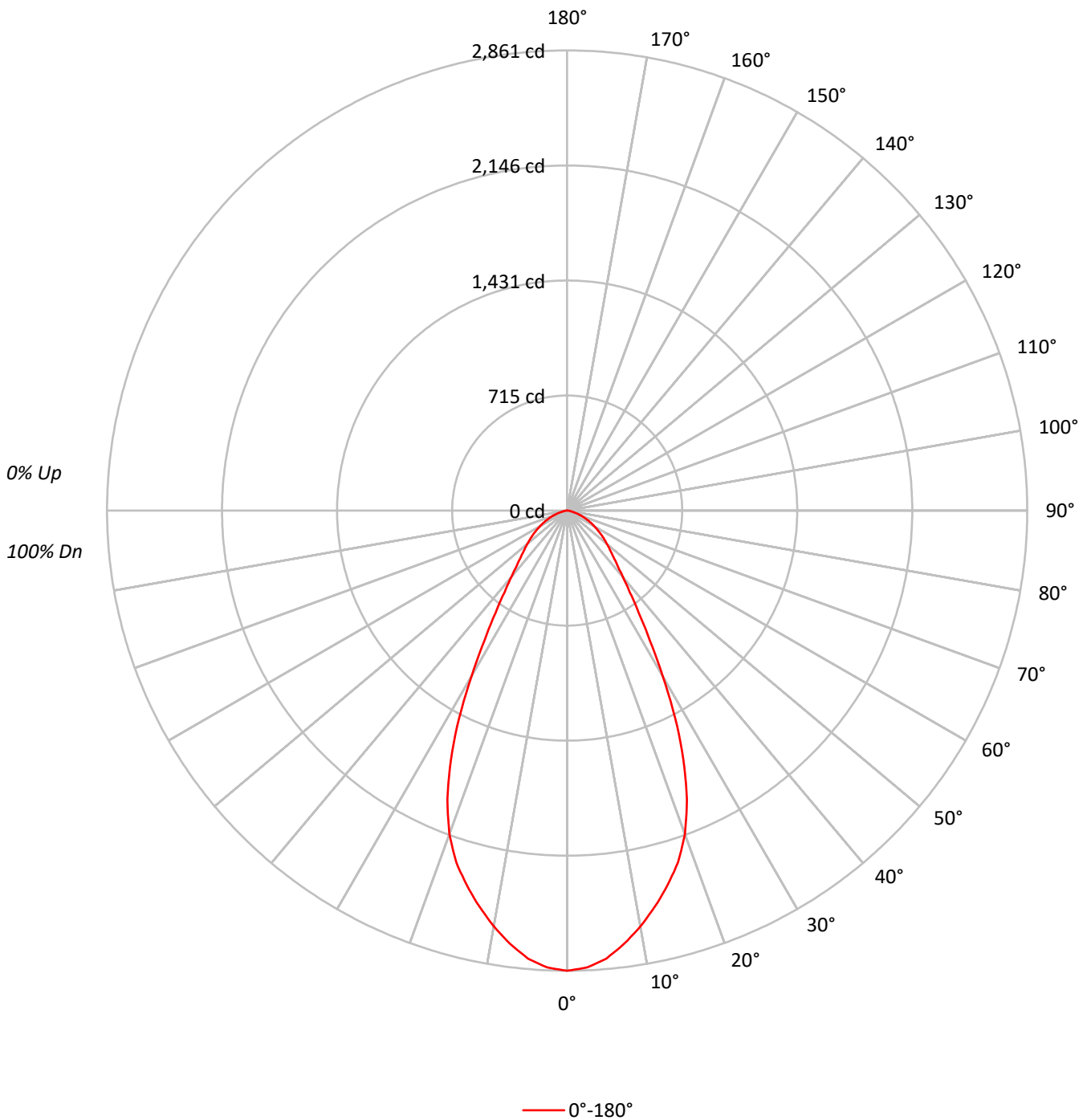
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61
6	82	72	65	60	80	71	64	59	69	63	59	68	62	58	66	62	58	56
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	204839
5°	200949
10°	190840
15°	178729
20°	163130
25°	135231
30°	98115
35°	67856
40°	50184
45°	41041
50°	36002
55°	32020
60°	27910
65°	23753
70°	18967
75°	13722
80°	9855
85°	11255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.3	8.8
10°-20°	674.1	22.8
20°-30°	771.1	26.0
30°-40°	499.9	16.9
40°-50°	318.8	10.8
50°-60°	229.6	7.7
60°-70°	139.6	4.7
70°-80°	55.6	1.9
80°-90°	13.0	0.4
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°	1706.5	57.6
0°-40°	2206.5	74.5
0°-60°	2754.8	93.0
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2861	
5°	2796	261
15°	2411	674
25°	1712	771
35°	776	500
45°	405	319
55°	256	230
65°	140	140
75°	50	56
85°	14	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2860.8
2.5°	2843.7
5°	2795.8
7.5°	2717.2
10°	2624.8
12.5°	2522.2
15°	2411.1
17.5°	2293.1
20°	2140.9
22.5°	1946.0
25°	1711.7
27.5°	1455.2
30°	1186.7
32.5°	955.9
35°	776.3
37.5°	639.5
40°	536.9
42.5°	461.7
45°	405.3
47.5°	360.8
50°	323.2
52.5°	289.0
55°	256.5
57.5°	224.0
60°	194.9
62.5°	167.6
65°	140.2
67.5°	114.6
70°	90.6
72.5°	70.1
75°	49.6
77.5°	34.2
80°	23.9
82.5°	15.4
85°	13.7
87.5°	6.8
90°	0.0

(END OF REPORT)