

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: P365622

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8027-F6LBXVM1-MW-BTR87**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365622  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8027-F6LBXVM1-MW-BTR87  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,  
BOTTOM TRIM POLYCARBONATE, CLEAR 0.375", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2847.0 lumens  
Efficiency: N/A  
Efficacy: 51.7 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

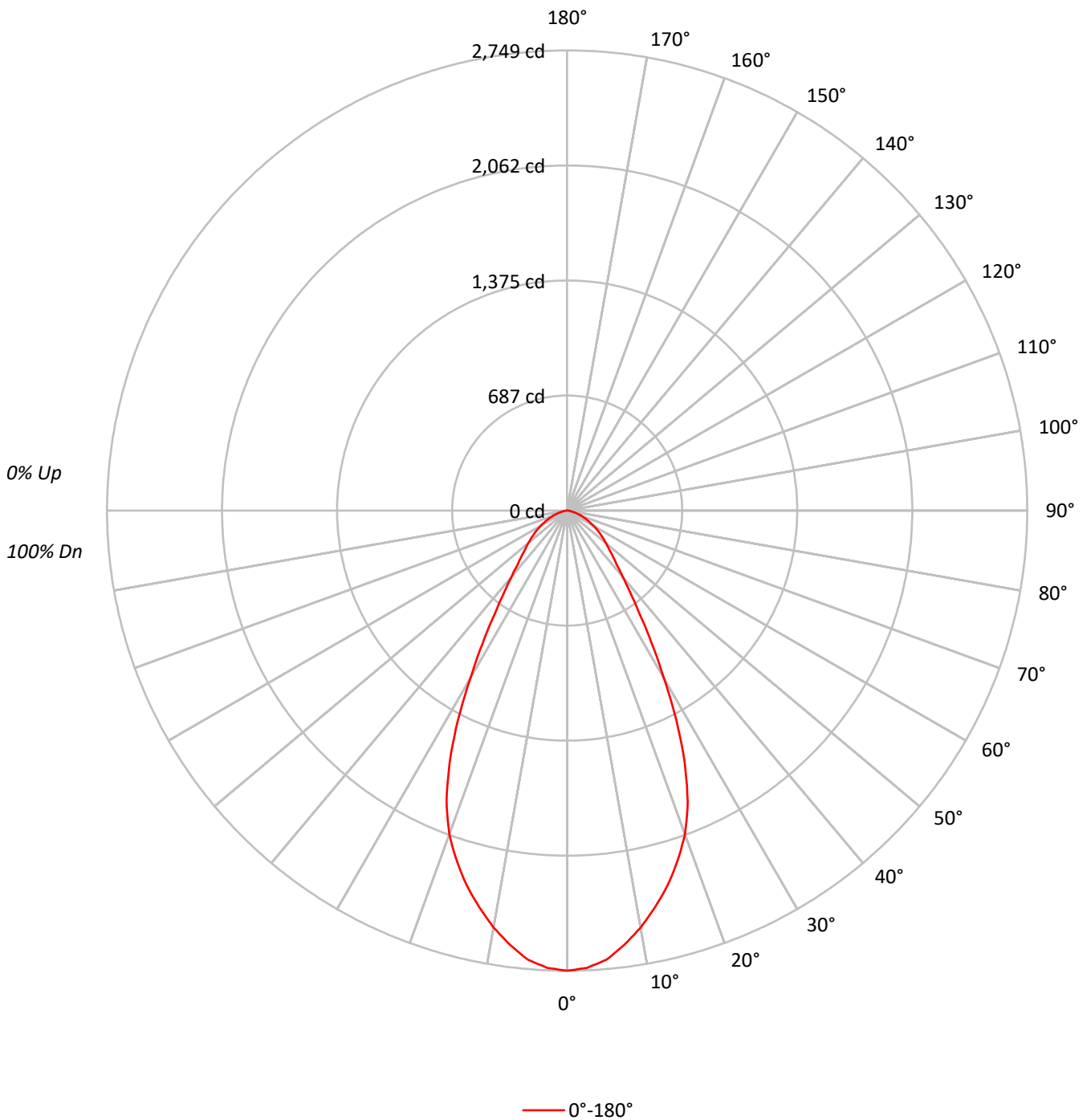
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	106	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74
4	92	84	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	67
5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	61
6	82	72	65	60	80	71	64	60	69	63	59	68	63	59	66	62	58	57
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	58	54	52
8	73	62	56	51	72	62	55	51	61	55	51	60	54	50	59	54	50	49
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	55	49	44	65	55	49	44	54	48	44	53	48	44	52	47	44	43

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

	0°
0°	196812
5°	193568
10°	183896
15°	171843
20°	156806
25°	131281
30°	95560
35°	66108
40°	48352
45°	38955
50°	33741
55°	29835
60°	26020
65°	22195
70°	18172
75°	13583
80°	9443
85°	8051



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.6	8.8
10°-20°	647.5	22.7
20°-30°	747.4	26.3
30°-40°	487.4	17.1
40°-50°	302.5	10.6
50°-60°	214.9	7.5
60°-70°	130.6	4.6
70°-80°	54.1	1.9
80°-90°	11.1	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°	1646.4	57.8
0°-40°	2133.7	74.9
0°-60°	2651.2	93.1
0°-90°	2847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2749	
5°	2693	252
15°	2318	647
25°	1662	747
35°	756	487
45°	385	303
55°	239	215
65°	131	131
75°	49	54
85°	10	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2748.7
2.5°	2734.0
5°	2693.1
7.5°	2616.1
10°	2529.3
12.5°	2426.2
15°	2318.2
17.5°	2193.7
20°	2057.9
22.5°	1882.7
25°	1661.7
27.5°	1414.5
30°	1155.8
32.5°	939.7
35°	756.3
37.5°	620.5
40°	517.3
42.5°	440.4
45°	384.7
47.5°	338.9
50°	302.9
52.5°	270.1
55°	239.0
57.5°	211.2
60°	181.7
62.5°	155.5
65°	131.0
67.5°	108.0
70°	86.8
72.5°	67.1
75°	49.1
77.5°	34.4
80°	22.9
82.5°	14.7
85°	9.8
87.5°	4.9
90°	0.0

(END OF REPORT)