

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: P366341

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8027-F6LBXVM1-WMH-BTR86**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P366341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-30)  
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-WMH-BTR86  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, WARM HAZE REFLECTOR,  
BOTTOM TRIM POLYCARBONATE, CLEAR 0.250", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3504.0 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.8  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

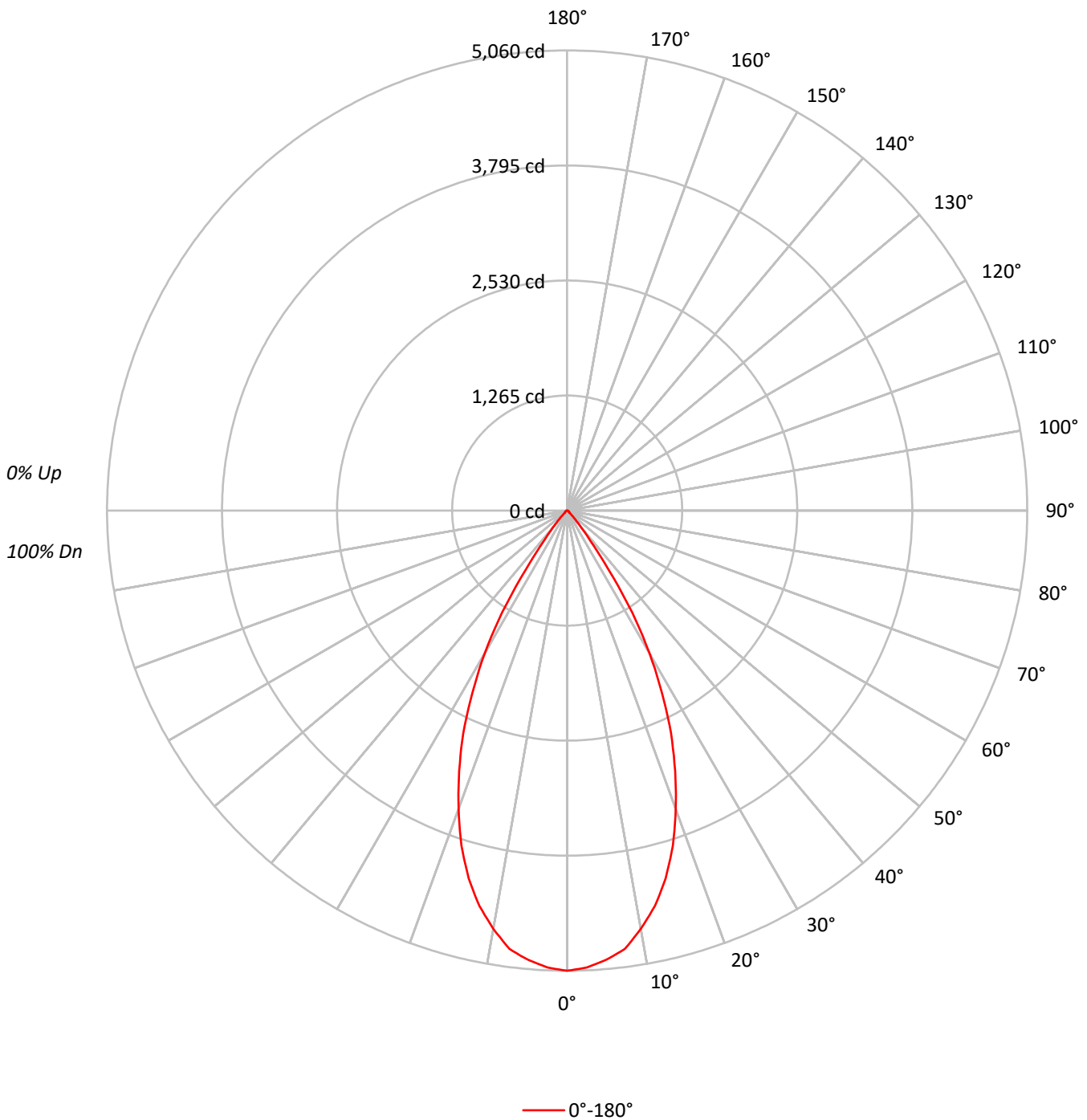
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62
9	79	70	64	61	78	69	64	61	69	64	60	68	63	60	67	63	60	59
10	76	67	61	58	75	66	61	58	65	61	57	65	60	57	64	60	57	56

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

	0°
0°	362277
5°	356315
10°	339503
15°	310232
20°	266042
25°	213469
30°	149673
35°	69150
40°	22199
45°	7169
50°	3331
55°	2946
60°	2921
65°	2660
70°	2638
75°	3043
80°	3876
85°	6490



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	13.3
10°-20°	1158.1	33.1
20°-30°	1216.3	34.7
30°-40°	539.7	15.4
40°-50°	69.7	2.0
50°-60°	21.8	0.6
60°-70°	15.4	0.4
70°-80°	11.2	0.3
80°-90°	6.9	0.2
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°	2839.3	81.0
0°-40°	3379.0	96.4
0°-60°	3470.6	99.0
0°-90°	3504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5060	
5°	4957	465
15°	4185	1158
25°	2702	1216
35°	791	540
45°	71	70
55°	24	22
65°	16	15
75°	11	11
85°	8	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5059.6
2.5°	5028.1
5°	4957.4
7.5°	4861.4
10°	4669.5
12.5°	4454.1
15°	4185.1
17.5°	3862.7
20°	3491.5
22.5°	3101.5
25°	2702.0
27.5°	2253.8
30°	1810.3
32.5°	1330.6
35°	791.1
37.5°	421.5
40°	237.5
42.5°	130.5
45°	70.8
47.5°	36.2
50°	29.9
52.5°	26.7
55°	23.6
57.5°	22.0
60°	20.4
62.5°	17.3
65°	15.7
67.5°	12.6
70°	12.6
72.5°	11.0
75°	11.0
77.5°	9.4
80°	9.4
82.5°	7.9
85°	7.9
87.5°	4.7
90°	0.0

(END OF REPORT)