

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: P366391

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8040-F6LBXVM1-WMH-BTR81**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P366391  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-31)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8040-F6LBXVM1-WMH-BTR81  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, WARM HAZE REFLECTOR,  
BOTTOM TRIM POLYCARBONATE, PATTERN 12 0.156", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3780.0 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.19  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

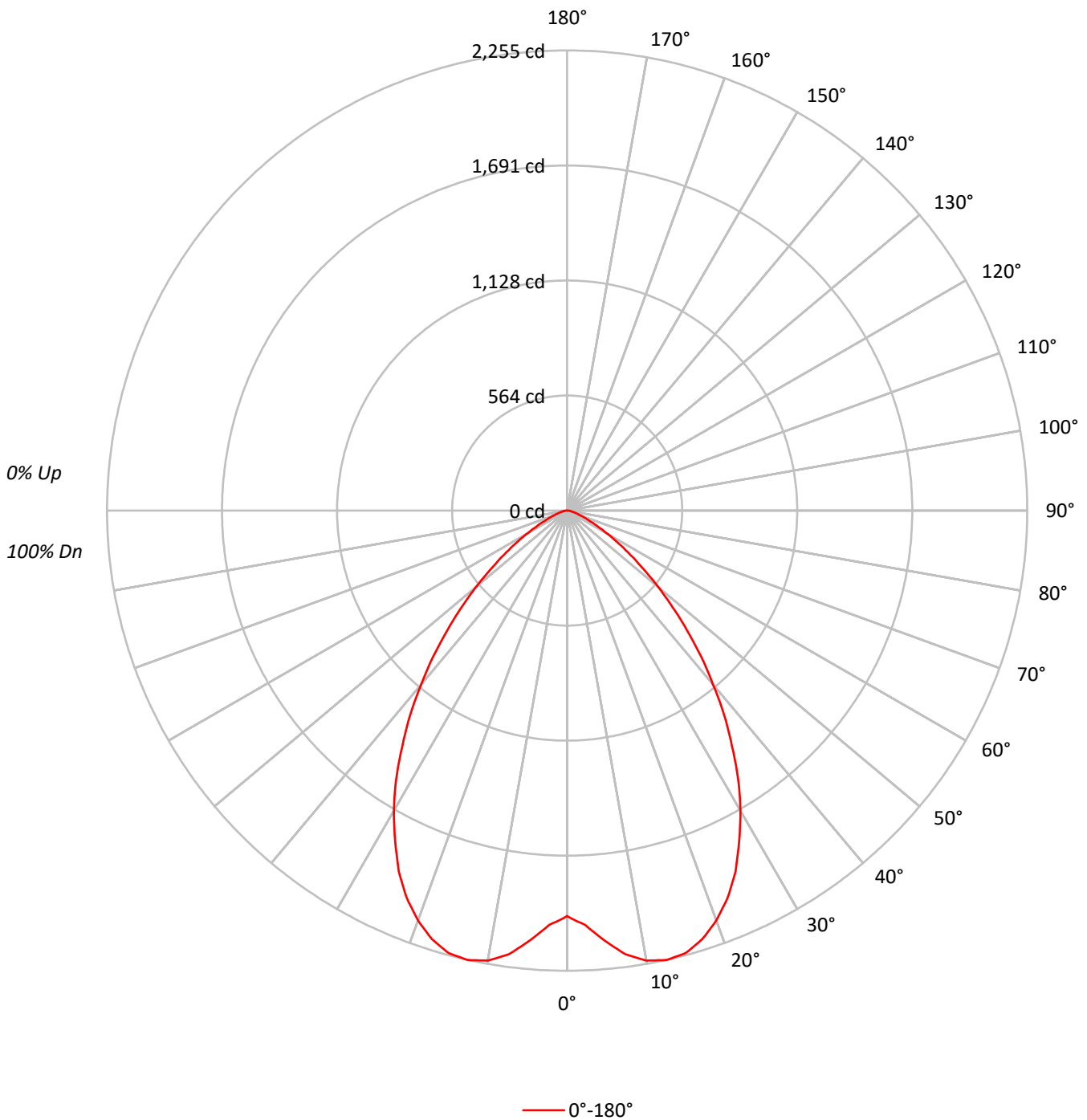
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71
4	91	81	74	69	89	80	73	68	78	72	67	75	71	67	73	69	66	64
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52
7	74	63	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

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

	0°
0°	142287
5°	152088
10°	162819
15°	166394
20°	162841
25°	154216
30°	140397
35°	123152
40°	103994
45°	84097
50°	64819
55°	47325
60°	32579
65°	21517
70°	14026
75°	10236
80°	8742
85°	10105



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.0	5.4
10°-20°	628.6	16.6
20°-30°	890.6	23.6
30°-40°	878.4	23.2
40°-50°	643.9	17.0
50°-60°	345.2	9.1
60°-70°	132.7	3.5
70°-80°	42.2	1.1
80°-90°	12.5	0.3
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°	1725.1	45.6
0°-40°	2603.5	68.9
0°-60°	3592.6	95.0
0°-90°	3780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3780.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1987	
5°	2116	206
15°	2245	629
25°	1952	891
35°	1409	878
45°	830	644
55°	379	345
65°	127	133
75°	37	42
85°	12	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1987.2
2.5°	2033.1
5°	2116.0
7.5°	2193.5
10°	2239.4
12.5°	2255.3
15°	2244.7
17.5°	2202.4
20°	2137.1
22.5°	2054.2
25°	1952.0
27.5°	1825.0
30°	1698.1
32.5°	1560.5
35°	1408.9
37.5°	1264.3
40°	1112.6
42.5°	973.3
45°	830.5
47.5°	703.6
50°	581.9
52.5°	472.6
55°	379.1
57.5°	296.2
60°	227.5
62.5°	171.0
65°	127.0
67.5°	93.5
70°	67.0
72.5°	51.1
75°	37.0
77.5°	28.2
80°	21.2
82.5°	15.9
85°	12.3
87.5°	7.1
90°	0.0

(END OF REPORT)