

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: P365638

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8030-F6LBXVM1-MW-BTR85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-16)  
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-BTR85  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,  
BOTTOM TRIM POLYCARBONATE, CLEAR 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3016.0 lumens  
Efficiency: N/A  
Efficacy: 54.7 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

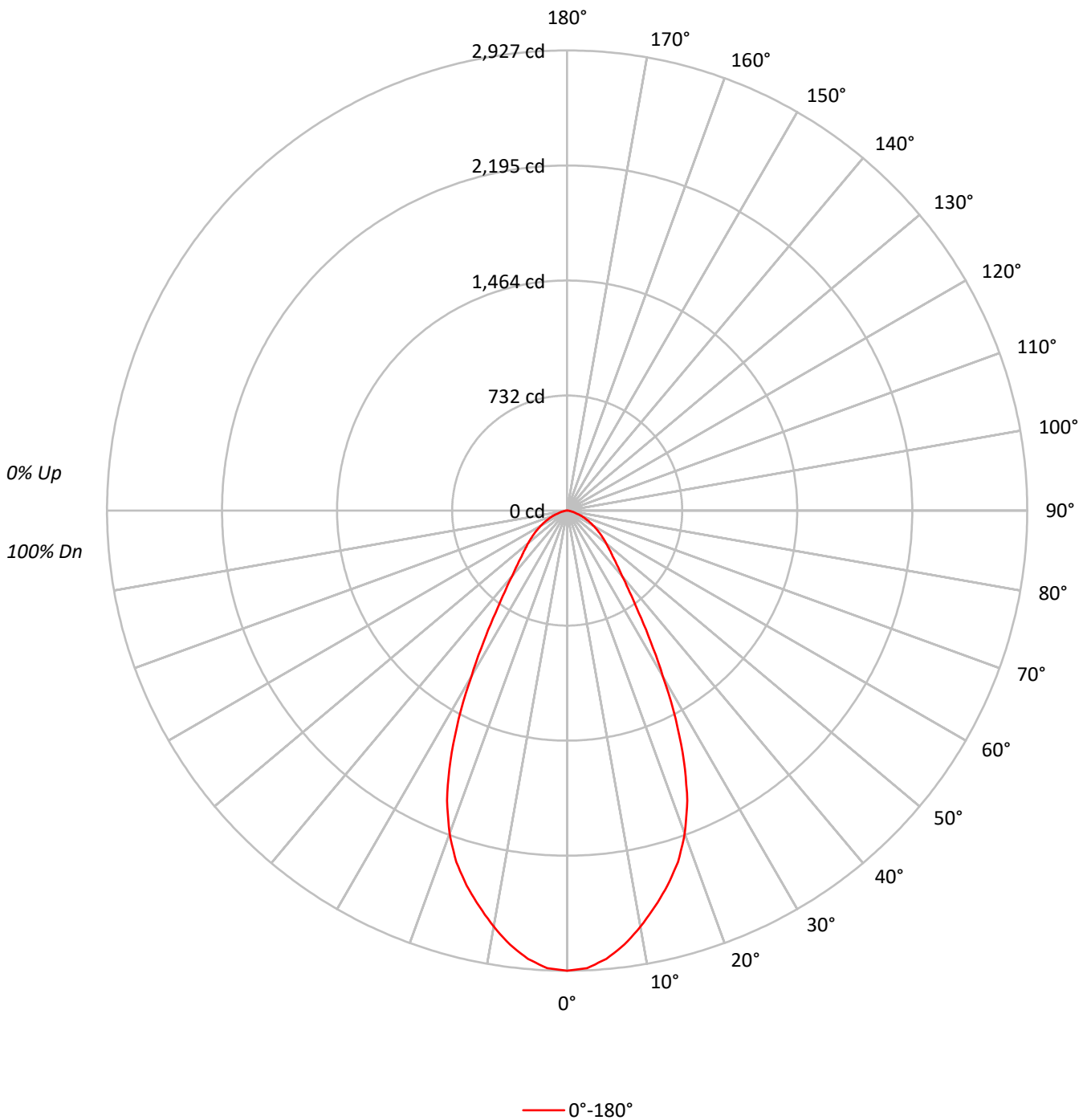
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	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	93	84	77	72	91	82	76	72	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	62
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	64	58	54	62	58	54	52
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47	45
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43

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

	0°
0°	209564
5°	205700
10°	195399
15°	182999
20°	166613
25°	138984
30°	100777
35°	69342
40°	50978
45°	41375
50°	35991
55°	31795
60°	27667
65°	23465
70°	18967
75°	13722
80°	9154
85°	9858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.6	8.9
10°-20°	689.5	22.9
20°-30°	791.3	26.2
30°-40°	512.1	17.0
40°-50°	321.7	10.7
50°-60°	229.0	7.6
60°-70°	138.1	4.6
70°-80°	54.9	1.8
80°-90°	11.9	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°	1748.4	58.0
0°-40°	2260.5	74.9
0°-60°	2811.2	93.2
0°-90°	3016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2927	
5°	2862	268
15°	2469	690
25°	1759	791
35°	793	512
45°	409	322
55°	255	229
65°	138	138
75°	50	55
85°	12	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2926.8
2.5°	2913.2
5°	2861.9
7.5°	2784.9
10°	2687.5
12.5°	2579.8
15°	2468.7
17.5°	2343.9
20°	2186.6
22.5°	1996.8
25°	1759.2
27.5°	1494.2
30°	1218.9
32.5°	986.4
35°	793.3
37.5°	651.4
40°	545.4
42.5°	468.4
45°	408.6
47.5°	362.4
50°	323.1
52.5°	288.9
55°	254.7
57.5°	224.0
60°	193.2
62.5°	165.8
65°	138.5
67.5°	112.8
70°	90.6
72.5°	68.4
75°	49.6
77.5°	34.2
80°	22.2
82.5°	13.7
85°	12.0
87.5°	6.8
90°	0.0

(END OF REPORT)