

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: P365677

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8040-F6LBXVM1-MW-BTR89BI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365677  
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-FEU6B35-8040-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: 3055.0 lumens  
Efficiency: N/A  
Efficacy: 55.4 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

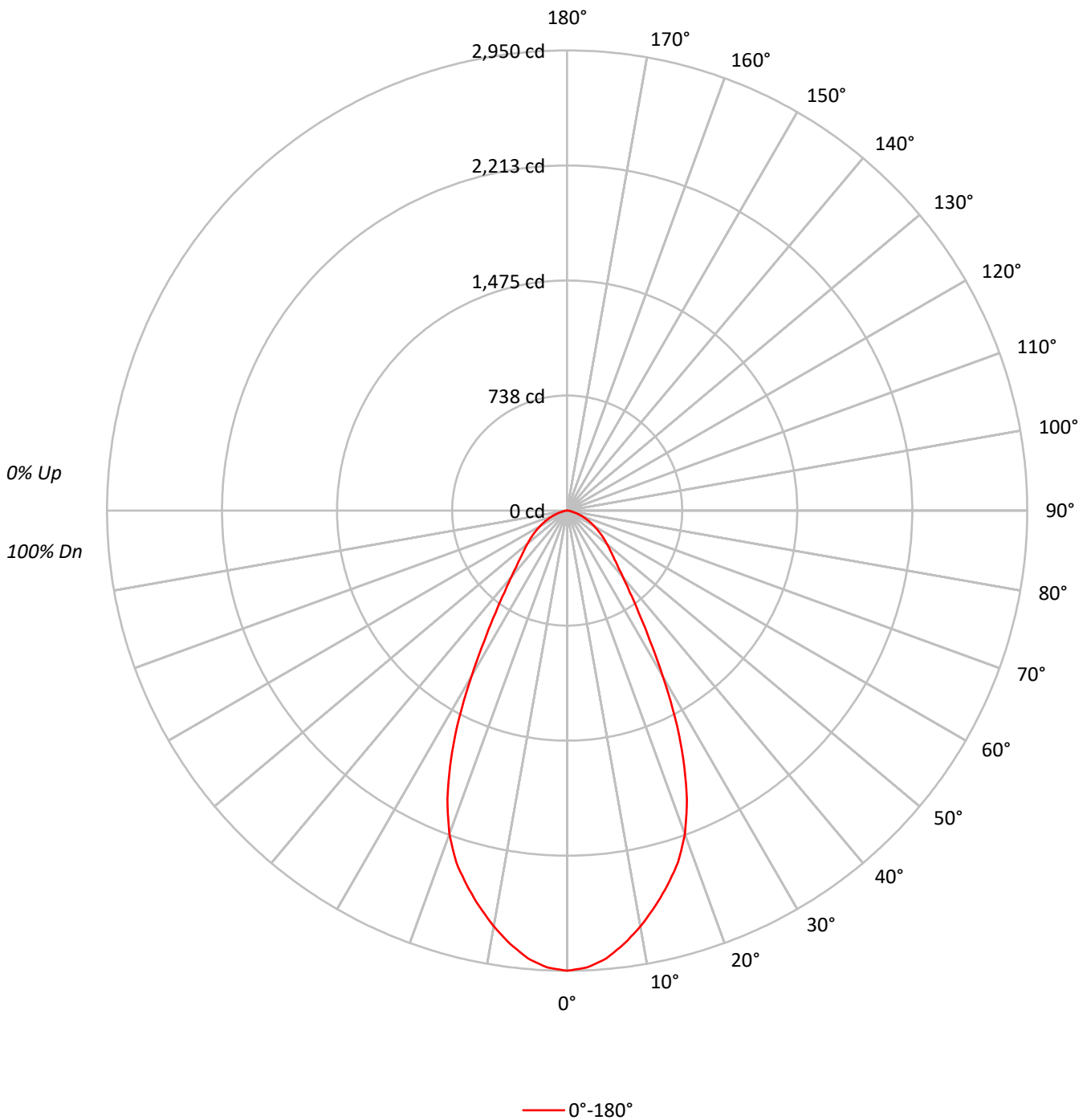
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	211197
5°	207188
10°	196765
15°	184274
20°	168197
25°	139426
30°	101166
35°	69963
40°	51745
45°	42307
50°	37116
55°	33019
60°	28784
65°	24499
70°	19553
75°	14137
80°	10185
85°	11584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.4	8.8
10°-20°	695.1	22.8
20°-30°	795.1	26.0
30°-40°	515.5	16.9
40°-50°	328.6	10.8
50°-60°	236.7	7.7
60°-70°	143.9	4.7
70°-80°	57.3	1.9
80°-90°	13.5	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°	1759.5	57.6
0°-40°	2275.0	74.5
0°-60°	2840.4	93.0
0°-90°	3055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2950	
5°	2883	269
15°	2486	695
25°	1765	795
35°	800	515
45°	418	329
55°	264	237
65°	145	144
75°	51	57
85°	14	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2949.6
2.5°	2932.0
5°	2882.6
7.5°	2801.5
10°	2706.3
12.5°	2600.5
15°	2485.9
17.5°	2364.3
20°	2207.4
22.5°	2006.4
25°	1764.8
27.5°	1500.4
30°	1223.6
32.5°	985.6
35°	800.4
37.5°	659.4
40°	553.6
42.5°	476.0
45°	417.8
47.5°	372.0
50°	333.2
52.5°	298.0
55°	264.5
57.5°	231.0
60°	201.0
62.5°	172.8
65°	144.6
67.5°	118.1
70°	93.4
72.5°	72.3
75°	51.1
77.5°	35.3
80°	24.7
82.5°	15.9
85°	14.1
87.5°	7.1
90°	0.0

(END OF REPORT)