

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: P366348

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8030-F6LBXVM1-WMH-BL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P366348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-47)  
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-WMH-BL85  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4465.9 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

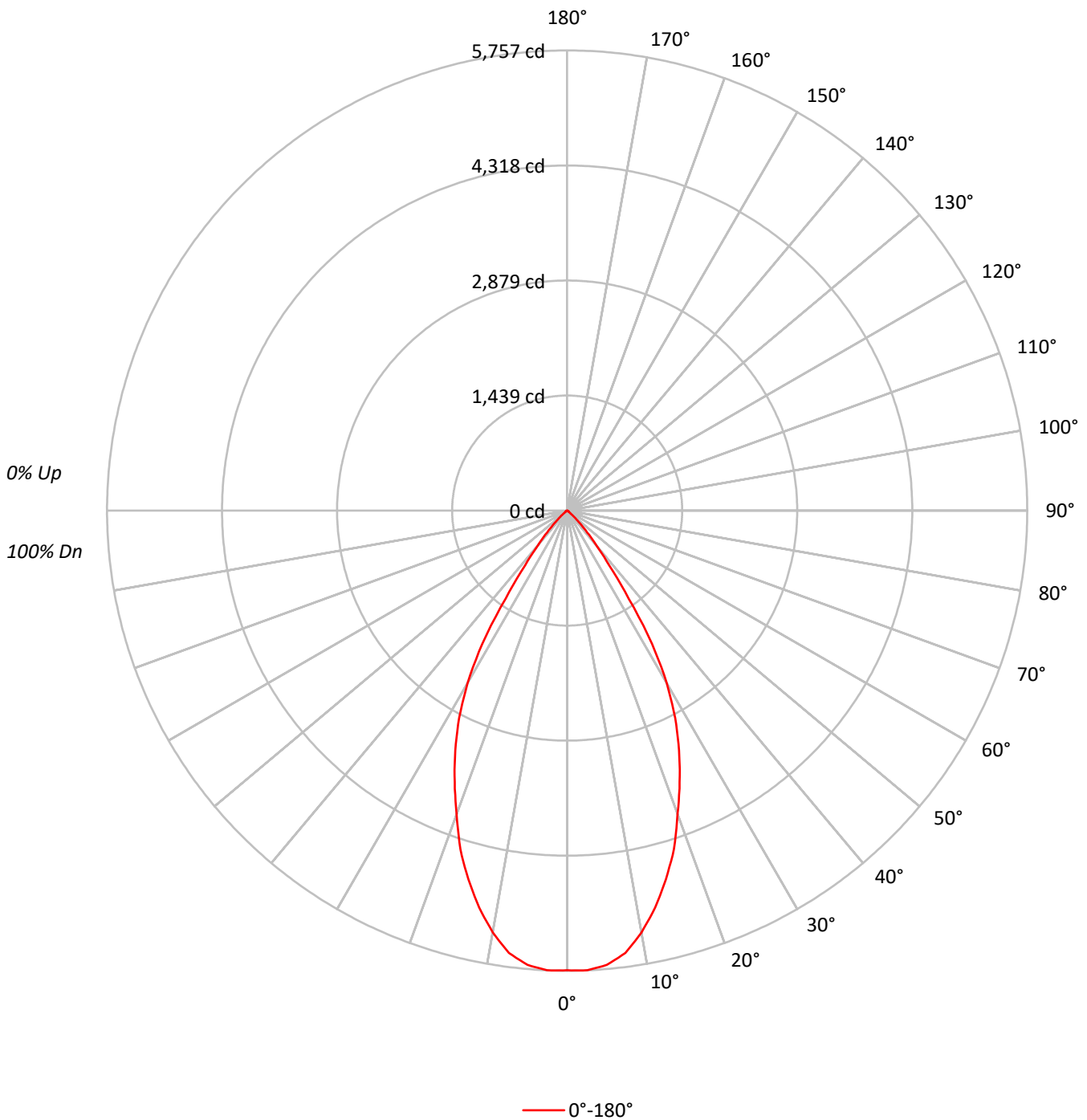
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72
6	89	80	75	71	88	80	74	70	78	73	70	77	73	69	76	72	69	68
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60
9	77	68	62	58	76	67	62	58	66	62	58	66	61	58	65	61	58	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	58	55	53

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

	0°
0°	157112
5°	156451
10°	148619
15°	134998
20°	117471
25°	99872
30°	78562
35°	44823
40°	20168
45°	8491
50°	2677
55°	810
60°	557
65°	440
70°	407
75°	538
80°	267
85°	533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.7	12.0
10°-20°	1327.9	29.7
20°-30°	1504.8	33.7
30°-40°	872.3	19.5
40°-50°	193.5	4.3
50°-60°	21.2	0.5
60°-70°	6.9	0.2
70°-80°	4.5	0.1
80°-90°	1.2	0.0
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°	3366.4	75.4
0°-40°	4238.7	94.9
0°-60°	4453.4	99.7
0°-90°	4465.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4465.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5752	
5°	5706	534
15°	4774	1328
25°	3314	1505
35°	1344	872
45°	220	193
55°	17	21
65°	7	7
75°	5	4
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5751.8
2.5°	5756.9
5°	5705.8
7.5°	5581.4
10°	5358.2
12.5°	5087.3
15°	4773.8
17.5°	4443.3
20°	4041.2
22.5°	3678.3
25°	3313.7
27.5°	2925.3
30°	2490.8
32.5°	1978.0
35°	1344.2
37.5°	863.8
40°	565.6
42.5°	369.7
45°	219.8
47.5°	122.7
50°	63.0
52.5°	29.0
55°	17.0
57.5°	13.6
60°	10.2
62.5°	8.5
65°	6.8
67.5°	5.1
70°	5.1
72.5°	5.1
75°	5.1
77.5°	3.4
80°	1.7
82.5°	1.7
85°	1.7
87.5°	0.0
90°	0.0

(END OF REPORT)