

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: P365646

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-37)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BL85  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, MATTE WHITE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4002.0 lumens  
Efficiency: N/A  
Efficacy: 72.6 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.95  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

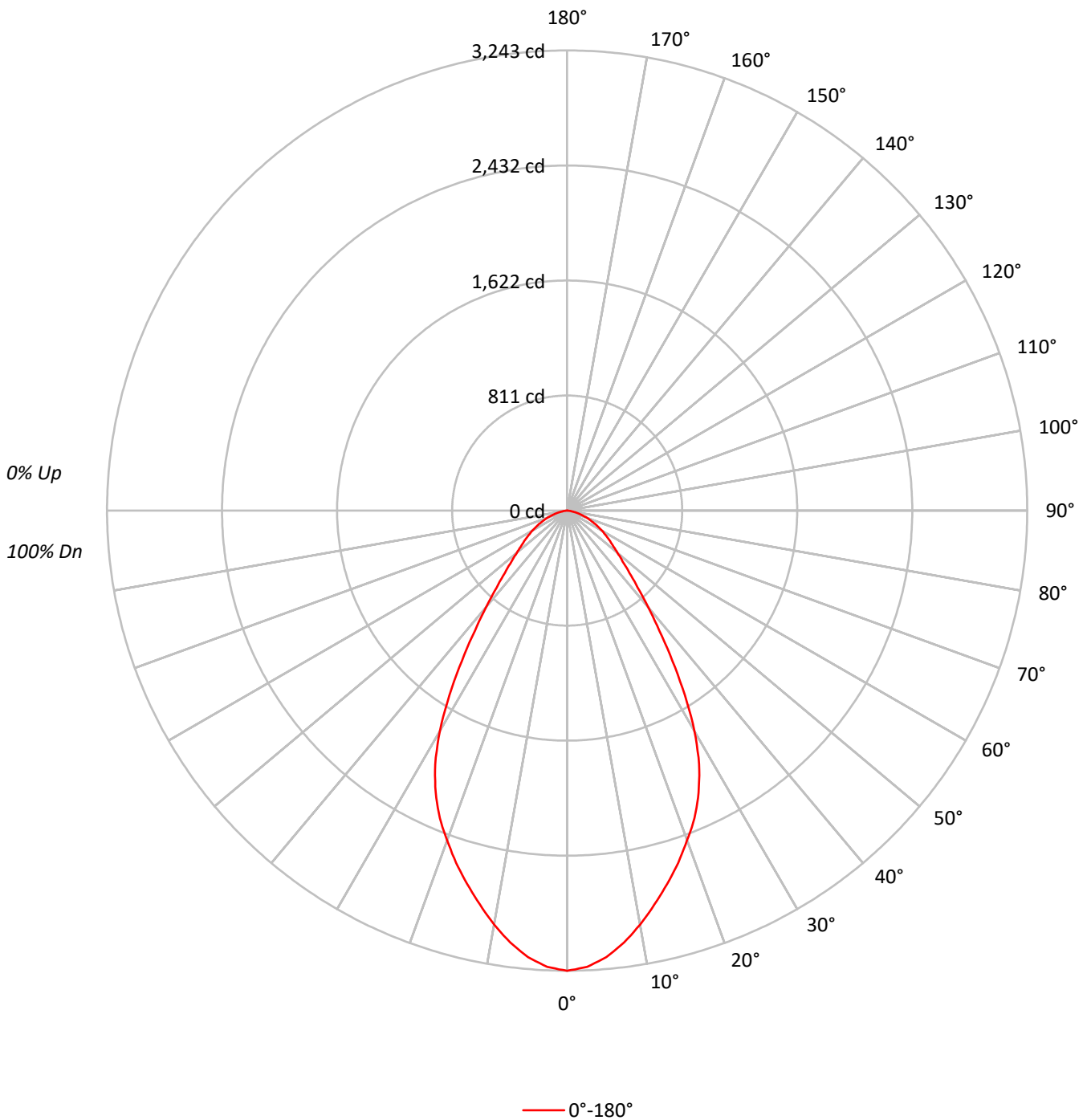
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	97		98	96	94		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	75		80	77	74	72
4	91	82	75	69	89	80	74	69	78	73	68		76	71	67		74	70	67	65
5	85	75	68	63	83	74	67	62	72	66	62		70	65	61		69	64	60	59
6	80	69	62	57	78	68	62	57	67	61	56		65	60	56		64	59	55	54
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60	55	51	49
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56	51	47	45
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	64	52	46	41	62	52	45	41	51	45	41		50	45	41		49	44	41	39

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

	0°
0°	88594
5°	86635
10°	82170
15°	77015
20°	71863
25°	66098
30°	56625
35°	43109
40°	31664
45°	23993
50°	19645
55°	17282
60°	15439
65°	13534
70°	11564
75°	9024
80°	6040
85°	2727



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.3	7.4
10°-20°	764.5	19.1
20°-30°	996.3	24.9
30°-40°	812.3	20.3
40°-50°	491.8	12.3
50°-60°	326.6	8.2
60°-70°	208.9	5.2
70°-80°	92.6	2.3
80°-90°	13.7	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°	2056.1	51.4
0°-40°	2868.4	71.7
0°-60°	3686.8	92.1
0°-90°	4002.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4002.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3243	
5°	3160	295
15°	2723	765
25°	2193	996
35°	1293	812
45°	621	492
55°	363	327
65°	209	209
75°	86	93
85°	9	14
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3243.4
2.5°	3218.9
5°	3159.6
7.5°	3070.6
10°	2962.5
12.5°	2843.8
15°	2723.4
17.5°	2603.1
20°	2472.2
22.5°	2346.6
25°	2193.1
27.5°	2015.1
30°	1795.3
32.5°	1544.0
35°	1292.8
37.5°	1066.0
40°	888.0
42.5°	736.3
45°	621.1
47.5°	530.4
50°	462.3
52.5°	406.5
55°	362.9
57.5°	321.0
60°	282.6
62.5°	246.0
65°	209.4
67.5°	176.2
70°	144.8
72.5°	113.4
75°	85.5
77.5°	61.1
80°	38.4
82.5°	20.9
85°	8.7
87.5°	1.7
90°	0.0

(END OF REPORT)