

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: P365653

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BTR81**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-19)  
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-BTR81  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,  
BOTTOM TRIM POLYCARBONATE, PATTERN 12 0.156", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2746.0 lumens  
Efficiency: N/A  
Efficacy: 49.8 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.19  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

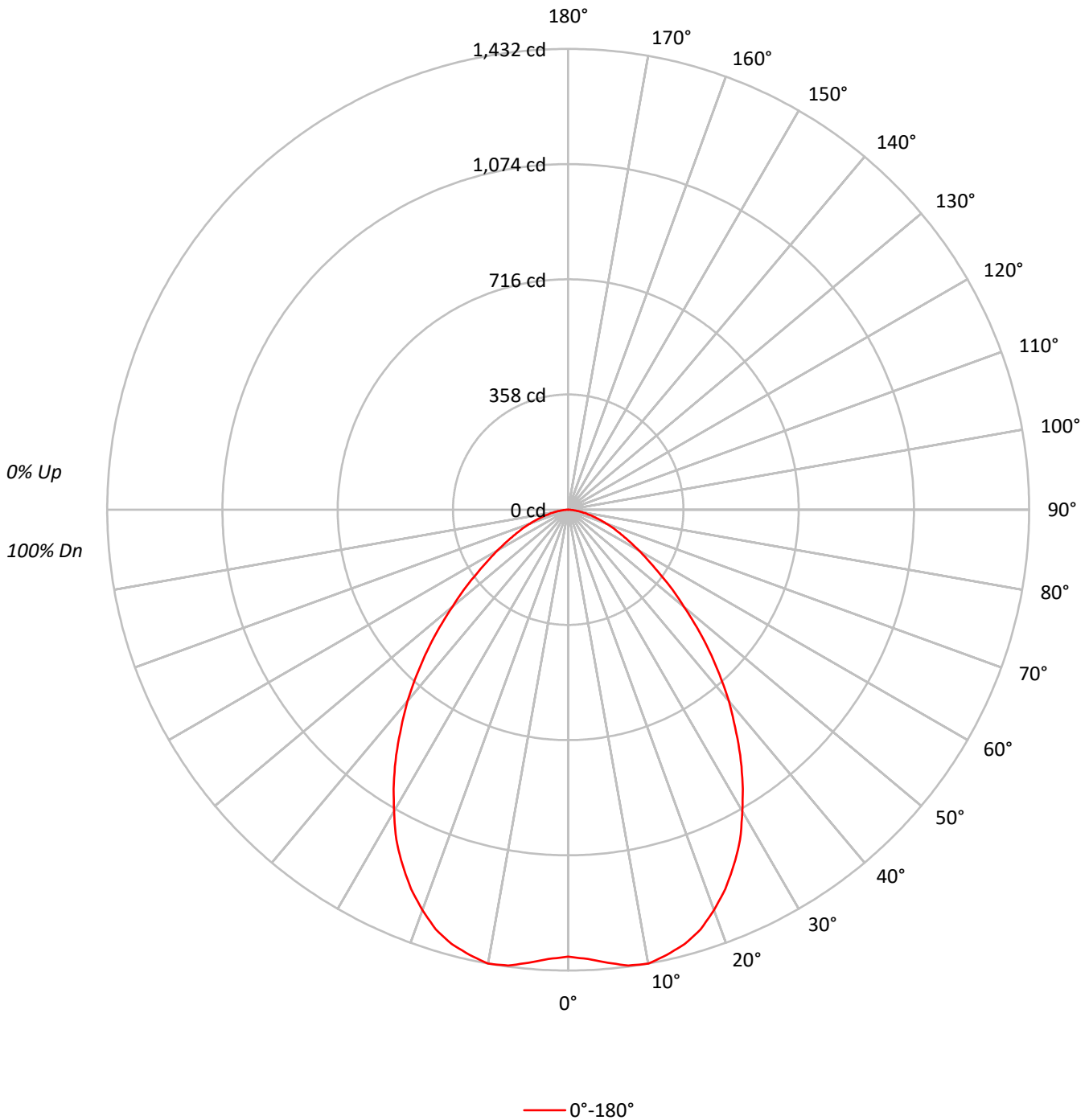
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	111	107	103	100	108	105	101	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	84	90	86	82		87	84	80		84	81	79	77
3	95	86	79	73	93	84	78	73	81	76	71		79	74	70		76	72	69	67
4	88	77	70	64	86	76	69	64	74	68	63		72	66	62		70	65	61	59
5	82	70	62	57	80	69	62	56	67	61	56		65	60	55		64	59	55	53
6	76	64	56	51	74	63	56	50	62	55	50		60	54	49		58	53	49	47
7	71	59	51	45	69	58	51	45	57	50	45		55	49	45		54	49	44	43
8	66	54	46	41	65	54	46	41	52	46	41		51	45	41		50	45	40	39
9	62	50	43	38	61	50	42	37	48	42	37		47	41	37		46	41	37	35
10	59	47	39	34	58	46	39	34	45	39	34		44	38	34		43	38	34	32

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

	0°
0°	99433
5°	101567
10°	104137
15°	103586
20°	100893
25°	96203
30°	89425
35°	81431
40°	72560
45°	62711
50°	52277
55°	43342
60°	36231
65°	30734
70°	26294
75°	21717
80°	17277
85°	12898



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	4.9
10°-20°	392.5	14.3
20°-30°	558.3	20.3
30°-40°	580.5	21.1
40°-50°	477.1	17.4
50°-60°	315.1	11.5
60°-70°	182.5	6.6
70°-80°	85.0	3.1
80°-90°	19.5	0.7
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°	1086.4	39.6
0°-40°	1666.8	60.7
0°-60°	2459.0	89.5
0°-90°	2746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2746.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1389	
5°	1413	136
15°	1397	393
25°	1218	558
35°	932	580
45°	619	477
55°	347	315
65°	181	183
75°	78	85
85°	16	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1388.7
2.5°	1397.4
5°	1413.1
7.5°	1428.8
10°	1432.3
12.5°	1416.6
15°	1397.4
17.5°	1367.7
20°	1324.1
22.5°	1275.3
25°	1217.7
27.5°	1156.6
30°	1081.6
32.5°	1008.4
35°	931.6
37.5°	851.3
40°	776.3
42.5°	696.1
45°	619.3
47.5°	542.6
50°	469.3
52.5°	408.2
55°	347.2
57.5°	296.6
60°	253.0
62.5°	214.6
65°	181.4
67.5°	153.5
70°	125.6
72.5°	101.2
75°	78.5
77.5°	59.3
80°	41.9
82.5°	27.9
85°	15.7
87.5°	7.0
90°	0.0

(END OF REPORT)