

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: P365654

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8035-F6LBXVM1-MW-BTR82**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P365654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-20)  
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-BTR82  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, MATTE WHITE REFLECTOR,  
BOTTOM TRIM POLYCARBONATE, PATTERN 12 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2816.0 lumens  
Efficiency: N/A  
Efficacy: 51.1 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.09  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

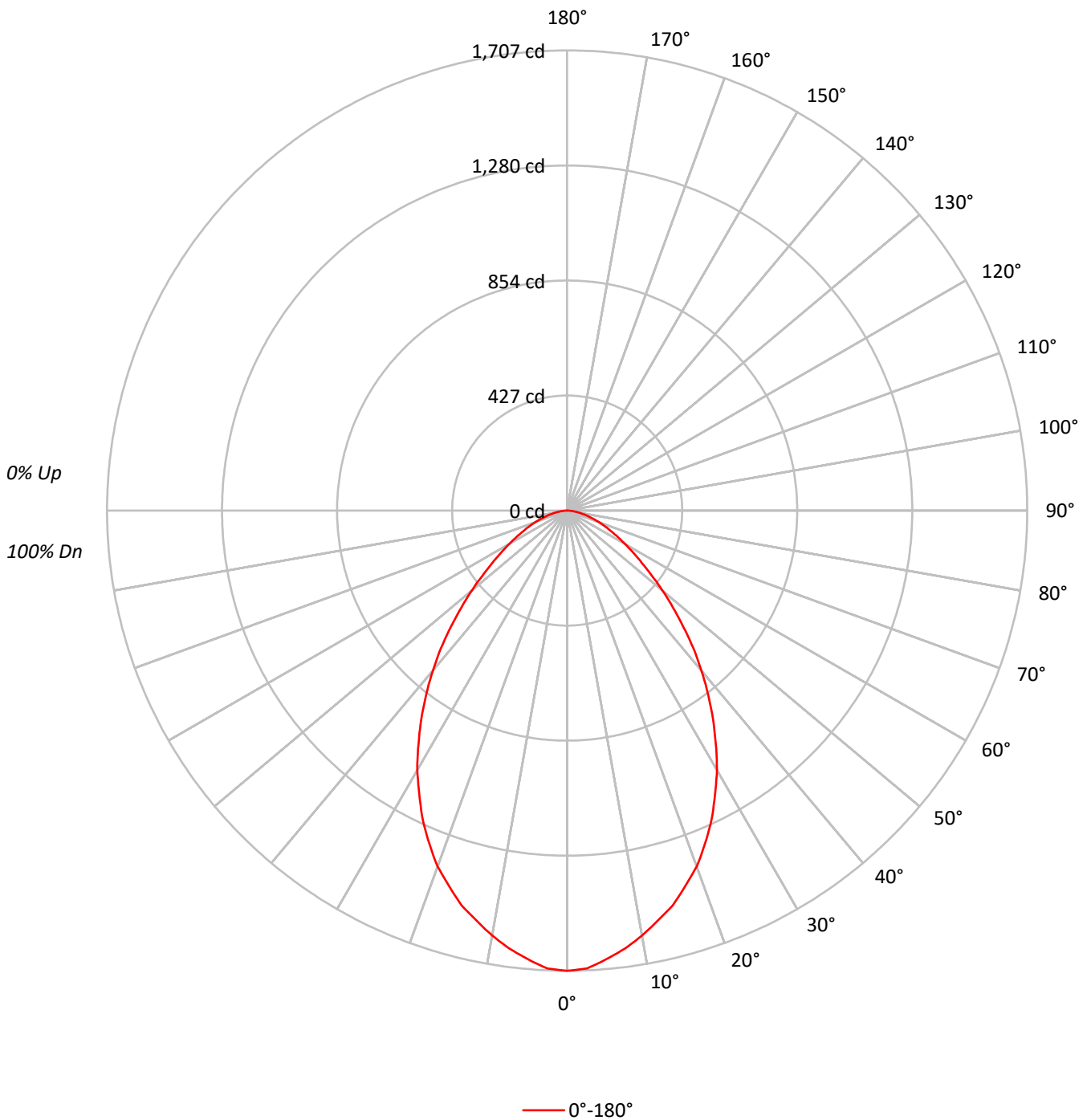
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		64	59	56	54
6	77	65	57	52	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	72	60	52	46	70	59	52	46	57	51	46		56	50	46		55	50	45	44
8	67	55	47	42	66	54	47	42	53	47	42		52	46	42		51	46	41	40
9	63	51	44	39	62	51	43	39	49	43	38		48	42	38		47	42	38	36
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44	39	35	34

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

	0°
0°	122239
5°	120068
10°	116381
15°	112318
20°	107072
25°	100122
30°	91930
35°	82392
40°	72439
45°	61688
50°	51530
55°	42269
60°	35500
65°	30174
70°	26315
75°	22215
80°	17978
85°	14377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	5.6
10°-20°	424.8	15.1
20°-30°	580.4	20.6
30°-40°	588.2	20.9
40°-50°	471.7	16.7
50°-60°	307.3	10.9
60°-70°	179.4	6.4
70°-80°	86.2	3.1
80°-90°	20.7	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°	1162.5	41.3
0°-40°	1750.7	62.2
0°-60°	2529.6	89.8
0°-90°	2816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1707	
5°	1670	157
15°	1515	425
25°	1267	580
35°	943	588
45°	609	472
55°	339	307
65°	178	179
75°	80	86
85°	18	21
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1707.2
2.5°	1700.2
5°	1670.5
7.5°	1639.1
10°	1600.7
12.5°	1557.1
15°	1515.2
17.5°	1459.3
20°	1405.2
22.5°	1337.1
25°	1267.3
27.5°	1187.0
30°	1111.9
32.5°	1026.4
35°	942.6
37.5°	858.8
40°	775.0
42.5°	693.0
45°	609.2
47.5°	532.4
50°	462.6
52.5°	394.5
55°	338.6
57.5°	289.8
60°	247.9
62.5°	211.2
65°	178.1
67.5°	150.1
70°	125.7
72.5°	101.2
75°	80.3
77.5°	61.1
80°	43.6
82.5°	29.7
85°	17.5
87.5°	7.0
90°	0.0

(END OF REPORT)