

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: P364900

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8027-F6LBXVM1-LI-BTR85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD6BX50D010TE-FEU6B35-8027-F6LBXVM1-LI-BTR85  
Description: VANDAL RESISTANT ENCLOSED BOTTOM TRIM RING, SPECULAR CLEAR REFLECTOR, BOTTOM TRIM POLYCARBONATE, CLEAR 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3673.0 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 0.76 / 0.76 / 0.77  
Luminous Opening: Circular (Dia: 0.44' x H: 0')  
CIE Type: Direct

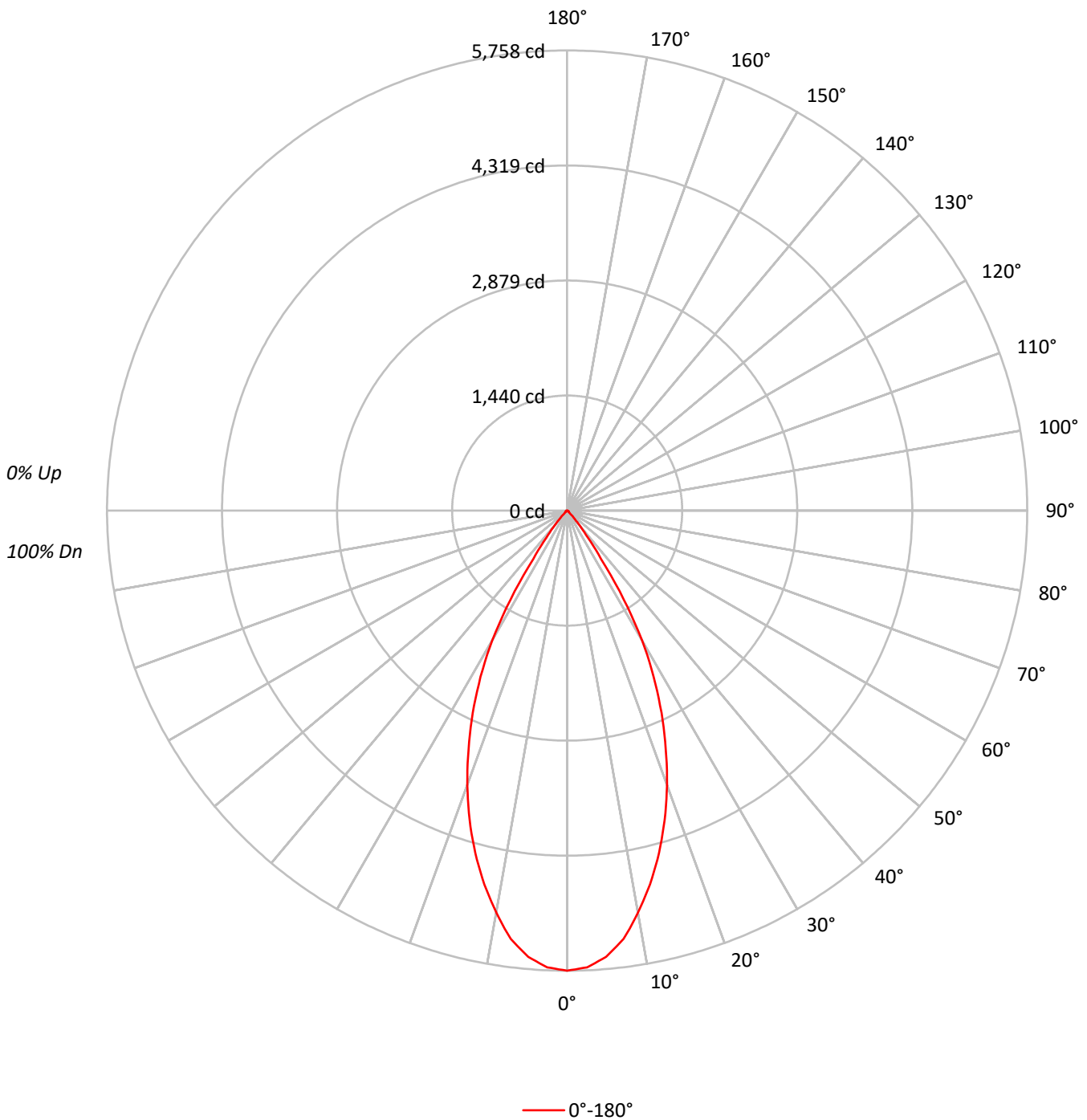
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	109	104	100	97	107	102	99	96	99	96	94		96	94	92		94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	87		92	89	86		89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82		87	84	81		85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77		83	79	76		81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72		79	75	72		78	74	71	70
7	87	78	73	69	85	77	72	69	76	72	68		75	71	68		74	70	68	66
8	83	74	69	65	82	74	68	65	73	68	65		72	67	64		71	67	64	63
9	79	71	65	62	78	70	65	61	69	65	61		68	64	61		68	64	61	60
10	76	67	62	58	75	67	62	58	66	61	58		65	61	58		65	61	58	57

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

	0°
0°	412248
5°	402854
10°	371384
15°	328942
20°	278493
25°	220634
30°	155047
35°	64578
40°	22162
45°	5924
50°	3253
55°	3046
60°	2792
65°	2745
70°	2722
75°	3154
80°	4000
85°	6654



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.4	14.1
10°-20°	1231.1	33.5
20°-30°	1263.8	34.4
30°-40°	535.2	14.6
40°-50°	65.8	1.8
50°-60°	21.8	0.6
60°-70°	16.1	0.4
70°-80°	12.5	0.3
80°-90°	7.5	0.2
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°	3014.2	82.1
0°-40°	3549.4	96.6
0°-60°	3637.0	99.0
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5758	
5°	5605	519
15°	4438	1231
25°	2793	1264
35°	739	535
45°	58	66
55°	24	22
65°	16	16
75°	11	12
85°	8	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5757.5
2.5°	5720.2
5°	5604.9
7.5°	5406.8
10°	5108.0
12.5°	4789.8
15°	4437.5
17.5°	4059.2
20°	3654.9
22.5°	3224.6
25°	2792.7
27.5°	2346.2
30°	1875.3
32.5°	1321.7
35°	738.8
37.5°	423.8
40°	237.1
42.5°	125.0
45°	58.5
47.5°	34.1
50°	29.2
52.5°	26.0
55°	24.4
57.5°	22.7
60°	19.5
62.5°	17.9
65°	16.2
67.5°	14.6
70°	13.0
72.5°	13.0
75°	11.4
77.5°	11.4
80°	9.7
82.5°	9.7
85°	8.1
87.5°	4.9
90°	0.0

(END OF REPORT)