

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: P366384

Luminaire Tested: **FLD6BX50D010TE-FEU6B35-8040-F6LBXVM1-WMH-BL85**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P366384  
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-FEU6B35-8040-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: 4605.1 lumens  
Efficiency: N/A  
Efficacy: 83.6 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

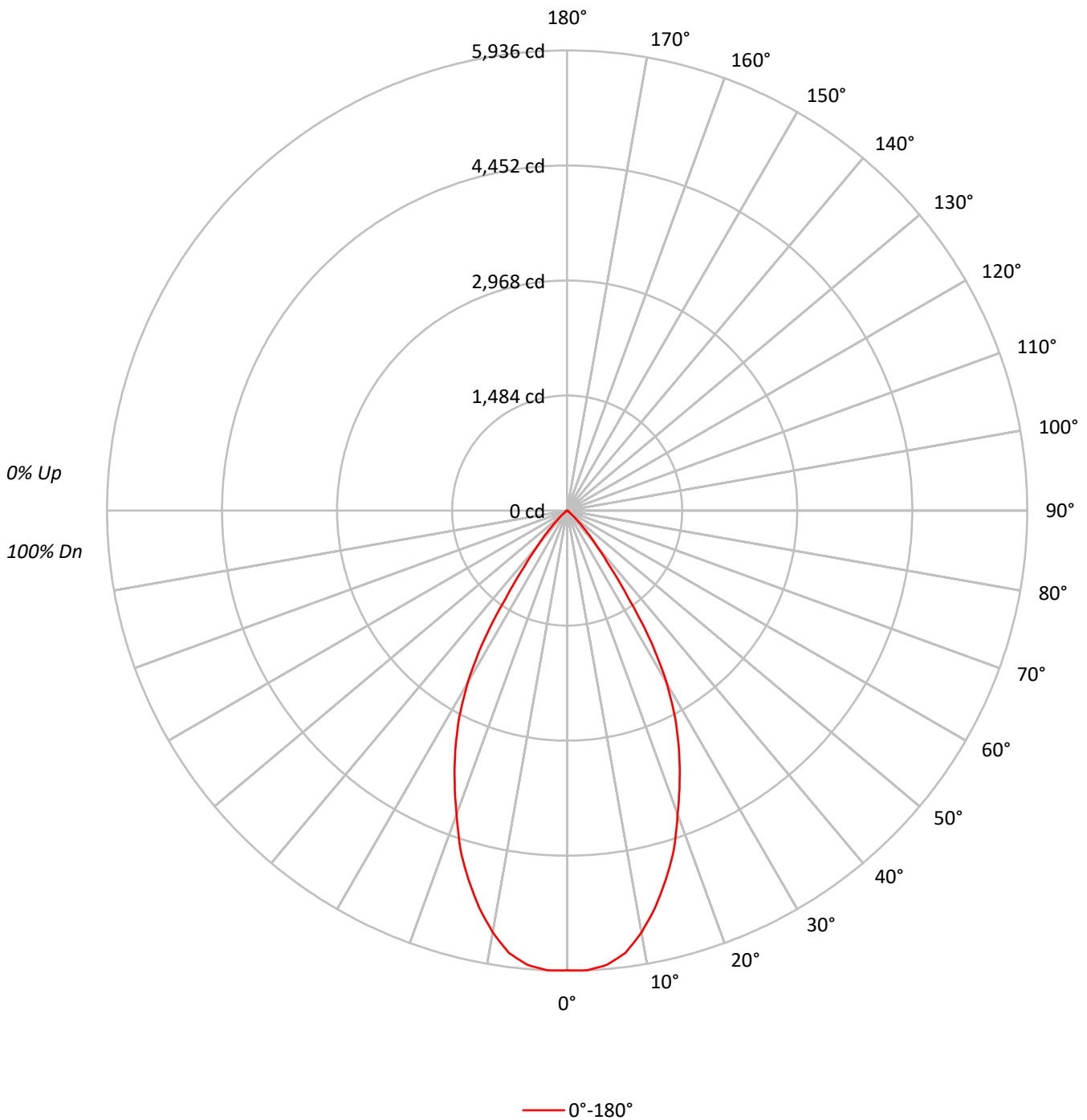
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	162001
5°	161318
10°	153245
15°	139200
20°	121128
25°	102982
30°	81010
35°	46221
40°	20795
45°	8753
50°	2762
55°	838
60°	574
65°	452
70°	423
75°	559
80°	283
85°	564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.3	12.0
10°-20°	1369.3	29.7
20°-30°	1551.6	33.7
30°-40°	899.5	19.5
40°-50°	199.5	4.3
50°-60°	21.9	0.5
60°-70°	7.2	0.2
70°-80°	4.7	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°	3471.2	75.4
0°-40°	4370.7	94.9
0°-60°	4592.0	99.7
0°-90°	4605.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4605.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5931	
5°	5883	550
15°	4922	1369
25°	3417	1552
35°	1386	900
45°	227	199
55°	18	22
65°	7	7
75°	5	5
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5930.8
2.5°	5936.0
5°	5883.3
7.5°	5755.1
10°	5525.0
12.5°	5245.6
15°	4922.4
17.5°	4581.6
20°	4167.0
22.5°	3792.8
25°	3416.9
27.5°	3016.3
30°	2568.4
32.5°	2039.6
35°	1386.1
37.5°	890.7
40°	583.2
42.5°	381.2
45°	226.6
47.5°	126.5
50°	65.0
52.5°	29.9
55°	17.6
57.5°	14.1
60°	10.5
62.5°	8.8
65°	7.0
67.5°	5.3
70°	5.3
72.5°	5.3
75°	5.3
77.5°	3.5
80°	1.8
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0

(END OF REPORT)