

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: P364944

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P364944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-43)  
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-LI-BL85  
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, SPECULAR CLEAR REFLECTOR,  
BOTTOM LENS POLYCARBONATE, CLEAR 0.187", 5000LM  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4661.1 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Spacing Criteria (0/90/45): 0.78 / 0.78 / 0.82  
Luminous Opening: Circular (Dia: 0.71' x H: 0')  
CIE Type: Direct

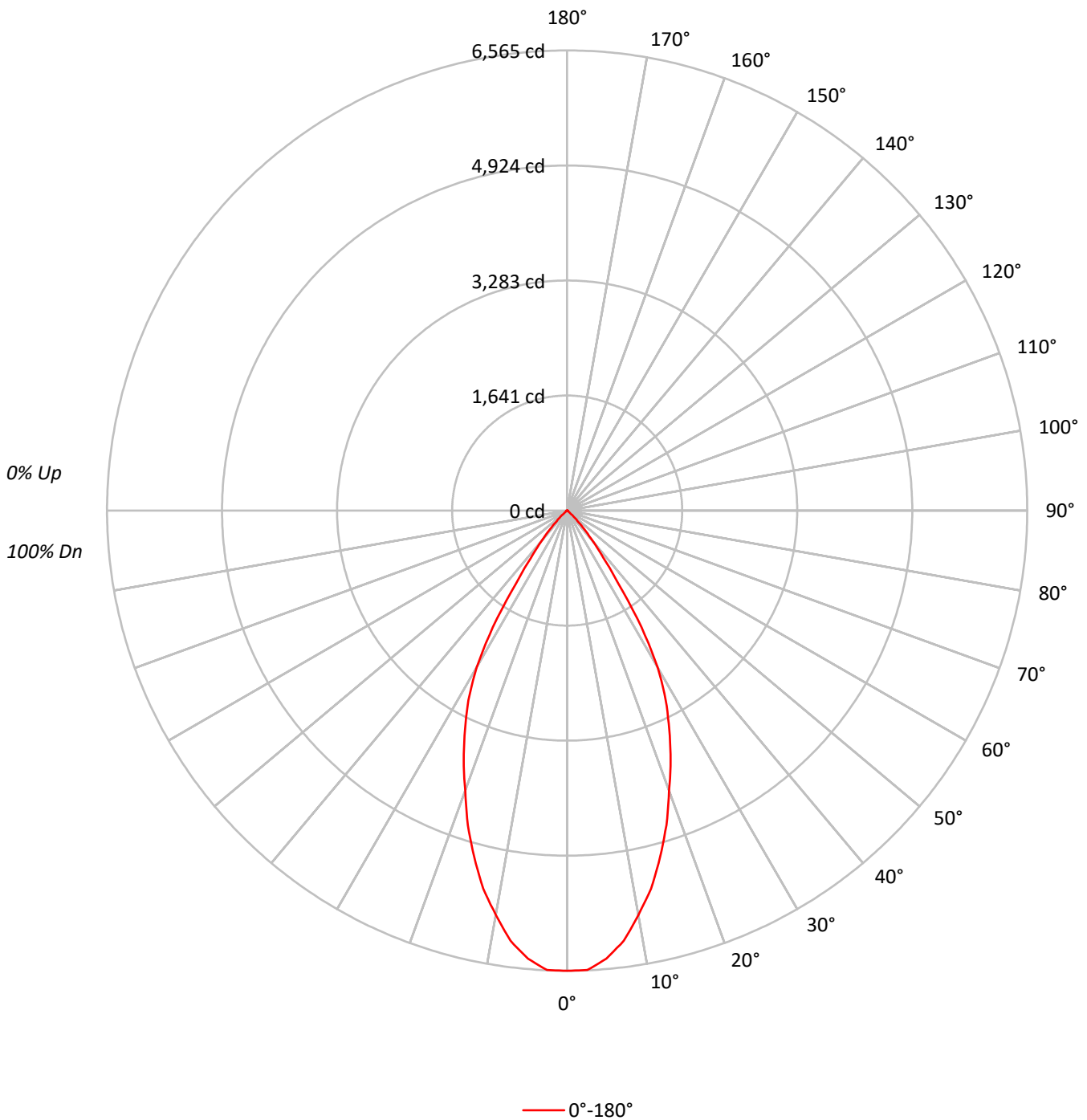
Input Watts (W): 55.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94		96	94	92		93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87		91	88	85		89	86	84	83
4	99	91	86	82	97	90	85	82	88	84	81		86	83	80		84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75		82	78	75		80	77	74	73
6	90	81	75	71	88	80	75	71	79	74	71		77	73	70		76	73	70	68
7	85	77	71	67	84	76	71	67	75	70	66		74	69	66		72	69	66	64
8	82	72	67	63	80	72	67	63	71	66	63		70	65	62		69	65	62	61
9	78	69	63	59	77	68	63	59	67	62	59		66	62	59		66	62	59	57
10	74	65	60	56	73	65	60	56	64	59	56		63	59	56		63	58	56	54

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

	0°
0°	179327
5°	175919
10°	162456
15°	144768
20°	123633
25°	103832
30°	81508
35°	42236
40°	20171
45°	7938
50°	2091
55°	586
60°	382
65°	343
70°	280
75°	369
80°	283
85°	564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	594.9	12.8
10°-20°	1422.8	30.5
20°-30°	1570.9	33.7
30°-40°	864.4	18.5
40°-50°	182.7	3.9
50°-60°	15.5	0.3
60°-70°	4.8	0.1
70°-80°	3.5	0.1
80°-90°	1.7	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°	3588.5	77.0
0°-40°	4452.9	95.5
0°-60°	4651.1	99.8
0°-90°	4661.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4661.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6565	
5°	6416	595
15°	5119	1423
25°	3445	1571
35°	1267	864
45°	206	183
55°	12	15
65°	5	5
75°	4	3
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6565.1
2.5°	6561.6
5°	6415.8
7.5°	6190.9
10°	5857.1
12.5°	5525.1
15°	5119.3
17.5°	4706.4
20°	4253.2
22.5°	3856.1
25°	3445.1
27.5°	3048.0
30°	2584.2
32.5°	1972.9
35°	1266.6
37.5°	853.8
40°	565.7
42.5°	353.1
45°	205.5
47.5°	105.4
50°	49.2
52.5°	21.1
55°	12.3
57.5°	8.8
60°	7.0
62.5°	5.3
65°	5.3
67.5°	3.5
70°	3.5
72.5°	5.3
75°	3.5
77.5°	1.8
80°	1.8
82.5°	1.8
85°	1.8
87.5°	1.8
90°	0.0

(END OF REPORT)