

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: P302538

Luminaire Tested: **FSP-22-25HE-35-CP125**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P302538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-22-25HE-35-CP125  
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .125"  
Light Source: (224) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: 

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

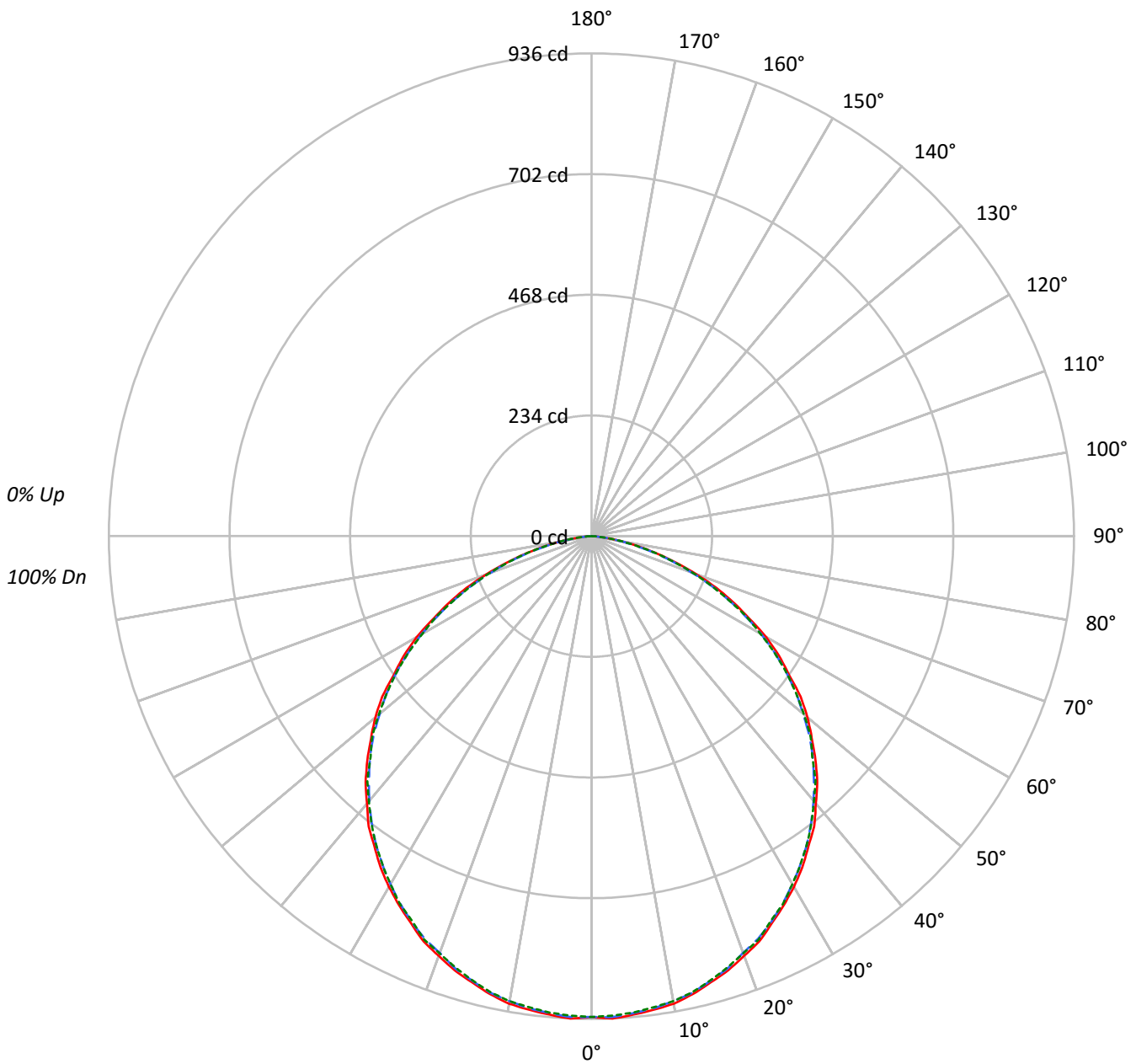
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2513.2 lumens  
Efficiency: N/A  
Efficacy: 128.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



0% Up  
100% Dn

— 0°-180°    - - - 45°-225°    - · - · - 90°-270°



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2509	2509	2509
5°	2516	2508	2505
10°	2515	2501	2501
15°	2495	2487	2484
20°	2479	2462	2465
25°	2458	2450	2444
30°	2440	2422	2422
35°	2410	2394	2394
40°	2379	2354	2358
45°	2339	2312	2305
50°	2290	2244	2253
55°	2194	2166	2166
60°	2105	2047	2036
65°	1934	1878	1871
70°	1703	1640	1656
75°	1393	1332	1373
80°	970	924	970
85°	460	429	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	3.5
10°-20°	251.9	10.0
20°-30°	380.5	15.1
30°-40°	456.3	18.2
40°-50°	469.1	18.7
50°-60°	413.5	16.5
60°-70°	292.8	11.7
70°-80°	138.5	5.5
80°-90°	22.4	0.9
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°	720.7	28.7
0°-40°	1177.0	46.8
0°-60°	2059.5	81.9
0°-90°	2513.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2513.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	932	932	932	932	932	
5°	931	930	928	927	927	89
15°	896	892	893	892	892	253
25°	828	825	825	824	823	382
35°	734	731	729	728	729	460
45°	615	609	608	606	606	474
55°	468	464	462	464	462	420
65°	304	294	295	296	294	300
75°	134	126	128	128	132	143
85°	15	14	14	15	15	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	932.3	932.3	932.3	932.3	932.3
2.5°	936.3	931.3	933.3	931.3	930.3
5°	931.3	930.3	928.3	927.3	927.3
7.5°	926.3	923.4	923.4	921.4	921.4
10°	920.4	915.4	915.4	915.4	915.4
12.5°	909.5	904.5	906.5	903.5	905.5
15°	895.6	891.6	892.6	891.6	891.6
17.5°	882.7	878.7	878.7	877.7	876.7
20°	865.8	865.8	859.8	862.8	860.8
22.5°	850.9	849.9	844.9	842.9	846.9
25°	828.0	825.1	825.1	824.1	823.1
27.5°	807.2	806.2	803.2	804.2	804.2
30°	785.4	781.4	779.4	777.4	779.4
32.5°	761.5	754.6	754.6	754.6	754.6
35°	733.7	730.7	728.8	727.8	728.8
37.5°	709.9	704.9	700.0	699.0	701.0
40°	677.1	673.2	670.2	671.2	671.2
42.5°	648.3	642.4	638.4	641.4	643.4
45°	614.6	608.6	607.6	605.6	605.6
47.5°	579.8	575.9	572.9	571.9	576.9
50°	547.1	539.1	536.1	536.1	538.1
52.5°	511.3	503.4	500.4	501.4	500.4
55°	467.6	463.7	461.7	463.7	461.7
57.5°	430.9	424.0	422.0	422.0	421.0
60°	391.2	381.3	380.3	379.3	378.3
62.5°	344.5	338.6	337.6	337.6	339.6
65°	303.8	293.9	294.9	295.9	293.9
67.5°	262.1	252.2	252.2	253.2	252.2
70°	216.4	207.5	208.5	210.5	210.5
72.5°	174.7	167.8	168.8	168.8	169.8
75°	134.0	126.1	128.1	128.1	132.1
77.5°	96.3	90.4	91.3	93.3	94.3
80°	62.6	58.6	59.6	60.6	62.6
82.5°	34.8	33.8	33.8	34.8	34.8
85°	14.9	13.9	13.9	14.9	14.9
87.5°	4.0	4.0	3.0	3.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)