

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: P302525

Luminaire Tested: **FSP-22-21-35-CA125**

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: P302525  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-22-21-35-CA125  
Description: 2x2 Fail Safe Flat Panel Clear Acrylic Lens .125"  
Light Source: (126) 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

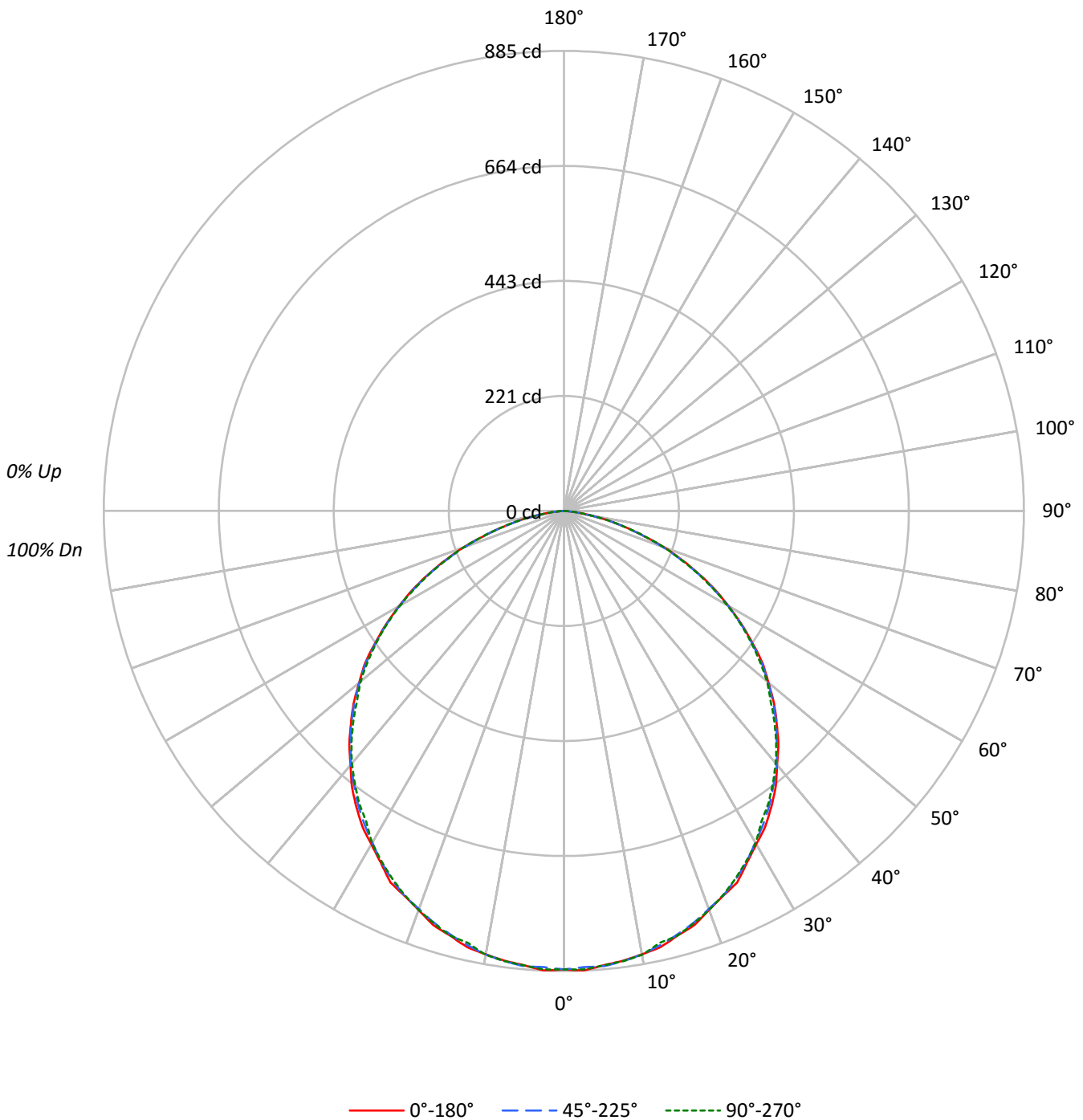
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2390.6 lumens  
Efficiency: N/A  
Efficacy: 115.5 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): 20.7  
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





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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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2373	2373	2373
5°	2370	2375	2370
10°	2367	2367	2369
15°	2356	2350	2356
20°	2339	2333	2339
25°	2342	2322	2317
30°	2300	2289	2292
35°	2285	2267	2255
40°	2241	2241	2228
45°	2204	2201	2179
50°	2152	2148	2136
55°	2080	2071	2062
60°	1970	1964	1955
65°	1826	1815	1808
70°	1626	1597	1619
75°	1307	1298	1307
80°	938	910	910
85°	460	460	460



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	3.5
10°-20°	238.3	10.0
20°-30°	359.9	15.1
30°-40°	431.6	18.1
40°-50°	444.5	18.6
50°-60°	393.7	16.5
60°-70°	281.6	11.8
70°-80°	134.8	5.6
80°-90°	22.8	1.0
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°	681.7	28.5
0°-40°	1113.2	46.6
0°-60°	1951.4	81.6
0°-90°	2390.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2390.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	877	876	879	877	877	83
15°	846	846	844	844	846	239
25°	789	783	782	780	780	361
35°	696	692	690	688	686	435
45°	579	578	578	576	573	447
55°	443	441	441	439	440	396
65°	287	285	285	285	284	284
75°	126	126	125	125	126	135
85°	15	15	15	15	15	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	881.9	881.9	881.9	881.9	881.9
2.5°	884.7	881.9	878.2	881.0	882.8
5°	877.2	876.3	879.1	877.2	877.2
7.5°	872.6	874.4	873.5	873.5	873.5
10°	866.1	866.1	866.1	865.1	867.0
12.5°	859.5	854.9	855.8	855.8	851.2
15°	845.6	845.6	843.7	843.7	845.6
17.5°	835.3	833.5	830.7	830.7	831.6
20°	816.7	816.7	814.8	813.0	816.7
22.5°	800.9	804.6	800.9	797.1	799.9
25°	788.8	783.2	782.2	779.5	780.4
27.5°	762.7	759.9	760.8	759.0	759.9
30°	740.3	738.5	736.6	734.8	737.5
32.5°	720.8	718.9	714.3	713.3	707.7
35°	695.6	691.9	690.1	688.2	686.3
37.5°	669.6	665.8	663.0	662.1	660.3
40°	637.9	636.0	637.9	633.2	634.2
42.5°	610.9	609.0	606.2	604.4	604.4
45°	579.2	578.3	578.3	575.5	572.7
47.5°	548.5	547.6	545.7	542.0	539.2
50°	514.0	515.0	513.1	509.4	510.3
52.5°	482.4	476.8	479.6	475.9	474.9
55°	443.3	441.4	441.4	438.6	439.5
57.5°	405.1	405.1	403.2	403.2	402.3
60°	366.0	365.0	365.0	364.1	363.2
62.5°	327.8	326.9	325.0	325.0	324.1
65°	286.8	285.0	285.0	285.0	284.0
67.5°	245.8	244.0	243.1	243.1	242.1
70°	206.7	203.9	203.0	203.0	205.8
72.5°	163.0	163.9	163.0	163.9	164.8
75°	125.7	125.7	124.8	124.8	125.7
77.5°	91.3	91.3	91.3	91.3	92.2
80°	60.5	58.7	58.7	58.7	58.7
82.5°	33.5	33.5	33.5	34.5	35.4
85°	14.9	14.9	14.9	14.9	14.9
87.5°	5.6	5.6	5.6	5.6	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)