

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: P302615

Luminaire Tested: **FSP-24-47-35-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: P302615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-47-35-CA125  
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .125"  
Light Source: (252) 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

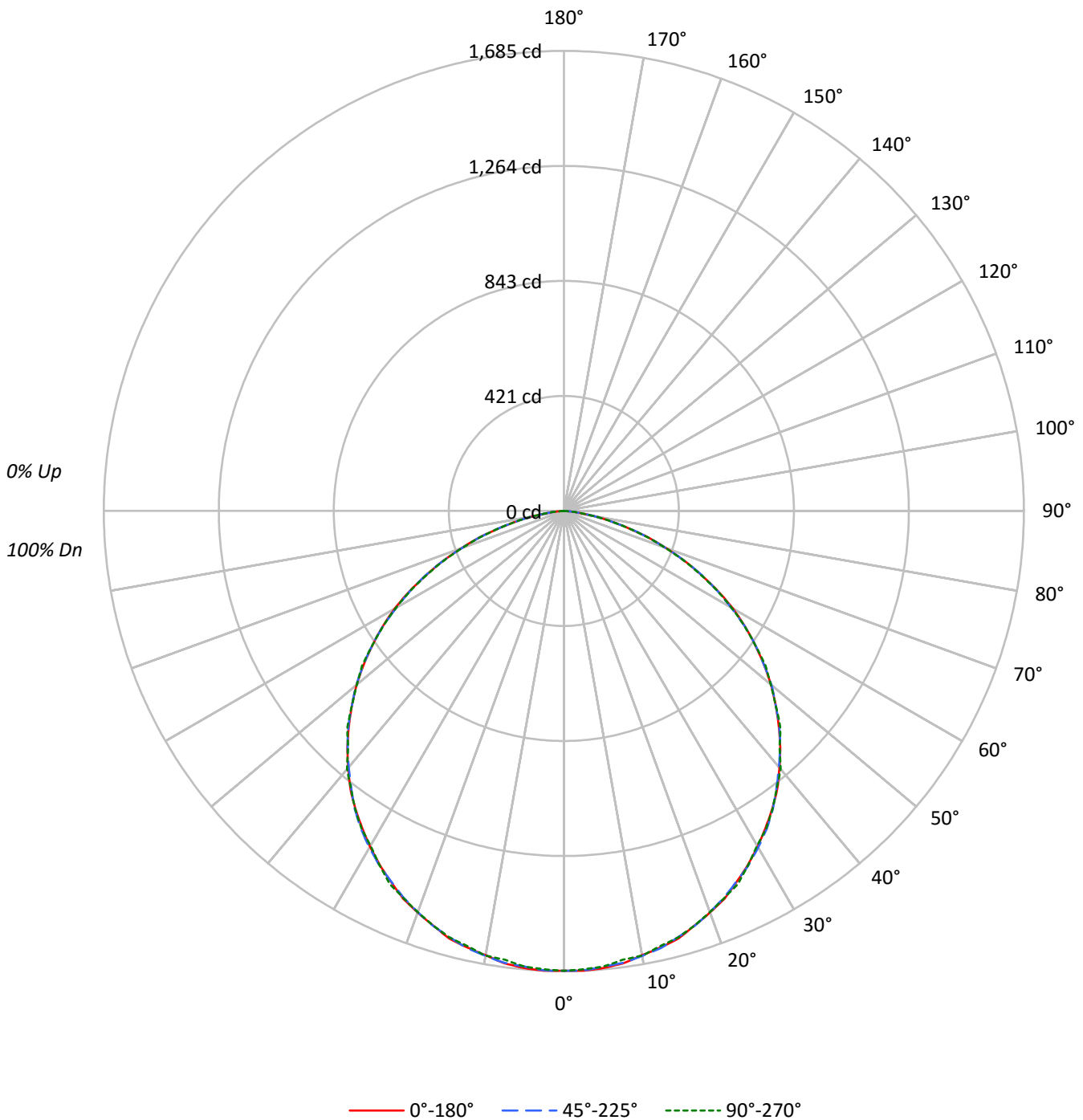
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4622.0 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.4  
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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

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

	0°	45°	90°
0°	2266	2266	2266
5°	2269	2262	2262
10°	2257	2261	2259
15°	2258	2251	2253
20°	2241	2239	2239
25°	2224	2222	2238
30°	2205	2211	2199
35°	2187	2191	2189
40°	2157	2153	2169
45°	2119	2124	2134
50°	2073	2079	2070
55°	2007	2010	2007
60°	1924	1903	1910
65°	1774	1779	1757
70°	1572	1562	1556
75°	1278	1292	1286
80°	911	911	901
85°	434	434	454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.1	3.4
10°-20°	456.1	9.9
20°-30°	691.0	14.9
30°-40°	832.4	18.0
40°-50°	859.4	18.6
50°-60°	764.5	16.5
60°-70°	550.0	11.9
70°-80°	265.5	5.7
80°-90°	44.0	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°	1306.2	28.3
0°-40°	2138.6	46.3
0°-60°	3762.5	81.4
0°-90°	4622.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4622.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1680	1673	1675	1671	1675	160
15°	1621	1619	1616	1620	1617	456
25°	1498	1498	1497	1497	1508	691
35°	1331	1330	1334	1332	1332	832
45°	1113	1115	1116	1115	1121	859
55°	855	854	857	858	855	764
65°	557	559	559	560	552	552
75°	246	247	249	249	247	266
85°	28	29	28	28	29	44
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.1	1684.1	1684.1	1684.1	1684.1
2.5°	1685.4	1684.1	1684.1	1676.0	1680.1
5°	1680.1	1673.4	1674.7	1670.7	1674.7
7.5°	1670.7	1666.7	1669.4	1660.0	1657.3
10°	1652.0	1653.3	1654.7	1648.0	1653.3
12.5°	1637.3	1641.3	1640.0	1633.3	1631.9
15°	1621.2	1618.6	1615.9	1619.9	1617.2
17.5°	1591.8	1589.2	1593.2	1591.8	1591.8
20°	1565.1	1563.8	1563.8	1559.8	1563.8
22.5°	1537.0	1533.0	1533.0	1538.4	1534.4
25°	1498.3	1498.3	1496.9	1496.9	1507.6
27.5°	1460.9	1459.5	1463.5	1466.2	1462.2
30°	1419.4	1419.4	1423.4	1420.8	1415.4
32.5°	1375.3	1374.0	1382.0	1378.0	1379.3
35°	1331.2	1329.9	1333.9	1332.5	1332.5
37.5°	1284.4	1276.4	1279.1	1285.8	1280.4
40°	1228.3	1227.0	1225.6	1228.3	1235.0
42.5°	1173.5	1170.8	1172.2	1174.8	1169.5
45°	1113.4	1114.7	1116.0	1114.7	1121.4
47.5°	1051.9	1054.5	1051.9	1058.6	1051.9
50°	990.4	989.1	993.1	993.1	989.1
52.5°	923.6	924.9	923.6	928.9	931.6
55°	855.4	854.1	856.7	858.1	855.4
57.5°	785.9	785.9	784.6	789.9	784.6
60°	715.1	709.7	707.0	709.7	709.7
62.5°	637.5	633.5	633.5	633.5	633.5
65°	557.3	558.7	558.7	560.0	552.0
67.5°	479.8	477.2	479.8	475.8	477.2
70°	399.6	401.0	397.0	399.6	395.6
72.5°	324.8	324.8	324.8	322.1	322.1
75°	245.9	247.3	248.6	248.6	247.3
77.5°	179.1	177.8	179.1	179.1	179.1
80°	117.6	114.9	117.6	116.3	116.3
82.5°	65.5	66.8	66.8	68.2	68.2
85°	28.1	29.4	28.1	28.1	29.4
87.5°	8.0	8.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)