

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: P302621

Luminaire Tested: **FSP-24-47-40-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: P302621  
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-24-47-40-CA125  
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .125"  
Light Source: (238) 4000 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

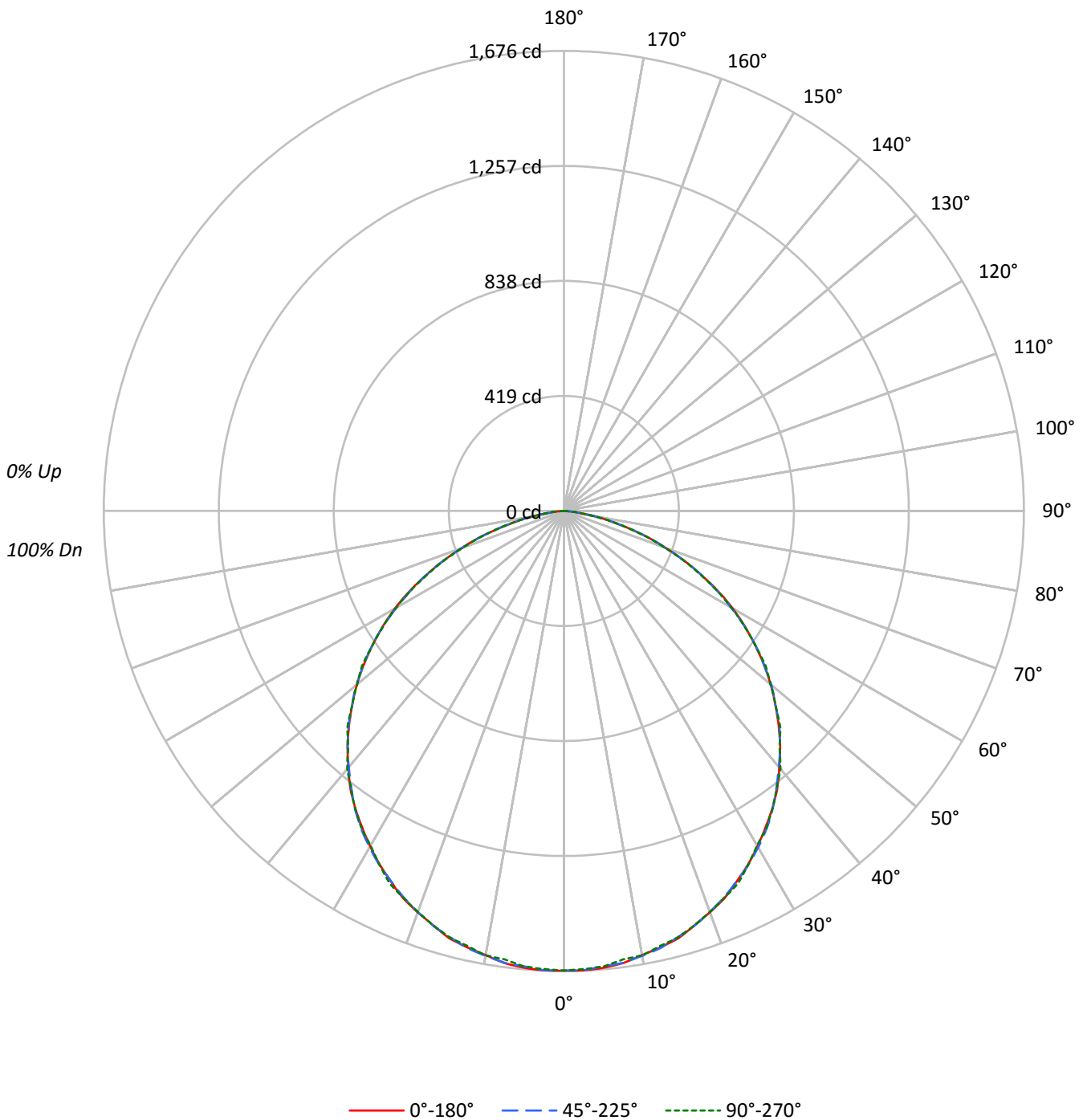
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4595.5 lumens  
Efficiency: N/A  
Efficacy: 111.0 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°	2253	2253	2253
5°	2256	2249	2249
10°	2244	2248	2246
15°	2245	2238	2240
20°	2228	2226	2226
25°	2212	2210	2225
30°	2193	2199	2186
35°	2174	2178	2176
40°	2145	2140	2157
45°	2106	2111	2121
50°	2061	2067	2058
55°	1995	1998	1995
60°	1913	1892	1899
65°	1764	1769	1747
70°	1563	1553	1548
75°	1271	1285	1278
80°	906	906	896
85°	431	431	451



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.2	3.4
10°-20°	453.5	9.9
20°-30°	687.0	14.9
30°-40°	827.6	18.0
40°-50°	854.5	18.6
50°-60°	760.1	16.5
60°-70°	546.8	11.9
70°-80°	263.9	5.7
80°-90°	43.8	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°	1298.8	28.3
0°-40°	2126.3	46.3
0°-60°	3741.0	81.4
0°-90°	4595.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4595.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1670	1664	1665	1661	1665	159
15°	1612	1609	1607	1611	1608	454
25°	1490	1490	1488	1488	1499	687
35°	1324	1322	1326	1325	1325	828
45°	1107	1108	1110	1108	1115	854
55°	850	849	852	853	850	760
65°	554	556	556	557	549	549
75°	244	246	247	247	246	264
85°	28	29	28	28	29	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1674.4	1674.4	1674.4	1674.4	1674.4
2.5°	1675.7	1674.4	1674.4	1666.4	1670.4
5°	1670.4	1663.8	1665.1	1661.1	1665.1
7.5°	1661.1	1657.1	1659.8	1650.5	1647.8
10°	1642.5	1643.8	1645.2	1638.5	1643.8
12.5°	1627.9	1631.9	1630.6	1623.9	1622.6
15°	1612.0	1609.3	1606.6	1610.6	1608.0
17.5°	1582.7	1580.1	1584.0	1582.7	1582.7
20°	1556.1	1554.8	1554.8	1550.8	1554.8
22.5°	1528.2	1524.2	1524.2	1529.6	1525.6
25°	1489.7	1489.7	1488.4	1488.4	1499.0
27.5°	1452.5	1451.2	1455.1	1457.8	1453.8
30°	1411.3	1411.3	1415.3	1412.6	1407.3
32.5°	1367.4	1366.1	1374.1	1370.1	1371.4
35°	1323.6	1322.3	1326.2	1324.9	1324.9
37.5°	1277.1	1269.1	1271.8	1278.4	1273.1
40°	1221.3	1219.9	1218.6	1221.3	1227.9
42.5°	1166.8	1164.1	1165.4	1168.1	1162.8
45°	1107.0	1108.3	1109.6	1108.3	1114.9
47.5°	1045.8	1048.5	1045.8	1052.5	1045.8
50°	984.7	983.4	987.4	987.4	983.4
52.5°	918.3	919.6	918.3	923.6	926.2
55°	850.5	849.2	851.8	853.2	850.5
57.5°	781.4	781.4	780.1	785.4	780.1
60°	711.0	705.6	703.0	705.6	705.6
62.5°	633.9	629.9	629.9	629.9	629.9
65°	554.2	555.5	555.5	556.8	548.8
67.5°	477.1	474.4	477.1	473.1	474.4
70°	397.3	398.7	394.7	397.3	393.4
72.5°	322.9	322.9	322.9	320.3	320.3
75°	244.5	245.8	247.2	247.2	245.8
77.5°	178.1	176.7	178.1	178.1	178.1
80°	116.9	114.3	116.9	115.6	115.6
82.5°	65.1	66.4	66.4	67.8	67.8
85°	27.9	29.2	27.9	27.9	29.2
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)