

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: P302626

Luminaire Tested: **FSP-24-47-50-CA08**

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: P302626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-14)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-47-50-CA08  
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .08"  
Light Source: (238) 5000 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

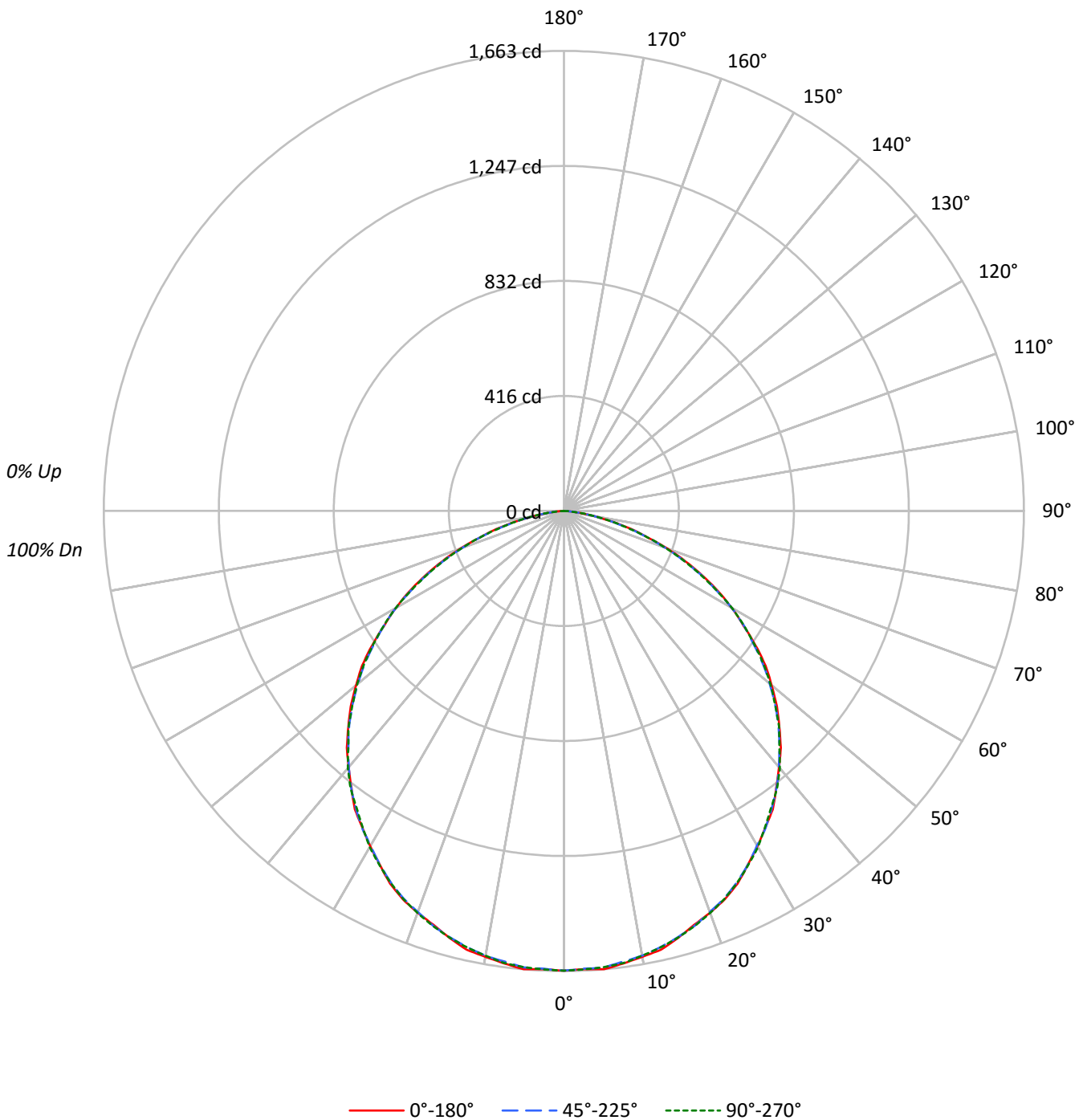
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4556.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 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	102	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°	2236	2236	2236
5°	2246	2237	2235
10°	2235	2230	2230
15°	2225	2221	2223
20°	2212	2209	2214
25°	2207	2199	2201
30°	2174	2170	2180
35°	2162	2154	2147
40°	2124	2124	2134
45°	2095	2087	2093
50°	2053	2033	2042
55°	1983	1962	1971
60°	1886	1886	1890
65°	1759	1742	1738
70°	1568	1537	1542
75°	1315	1273	1259
80°	902	902	912
85°	475	475	516



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.2	3.5
10°-20°	450.1	9.9
20°-30°	681.8	15.0
30°-40°	819.9	18.0
40°-50°	846.4	18.6
50°-60°	751.8	16.5
60°-70°	541.2	11.9
70°-80°	261.9	5.7
80°-90°	45.6	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°	1289.1	28.3
0°-40°	2109.1	46.3
0°-60°	3707.3	81.4
0°-90°	4556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4556.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1663	1659	1656	1651	1655	158
15°	1597	1596	1595	1591	1596	451
25°	1486	1480	1481	1481	1482	683
35°	1316	1312	1311	1312	1307	820
45°	1101	1100	1097	1097	1100	850
55°	846	844	836	840	840	754
65°	552	548	547	542	546	546
75°	253	248	245	244	242	266
85°	31	31	31	31	33	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1661.6	1661.6	1661.6	1661.6	1661.6
2.5°	1657.6	1657.6	1656.3	1657.6	1658.9
5°	1662.9	1658.9	1656.3	1650.9	1654.9
7.5°	1649.6	1645.6	1642.9	1638.9	1648.2
10°	1636.2	1636.2	1632.2	1625.5	1632.2
12.5°	1624.1	1616.1	1614.8	1613.4	1616.1
15°	1597.4	1596.1	1594.7	1590.7	1596.1
17.5°	1568.0	1572.0	1572.0	1572.0	1573.3
20°	1545.2	1542.5	1542.5	1542.5	1546.6
22.5°	1519.8	1514.4	1515.8	1510.4	1517.1
25°	1486.4	1479.7	1481.0	1481.0	1482.3
27.5°	1440.9	1440.9	1440.9	1442.2	1443.5
30°	1399.4	1402.1	1396.7	1395.4	1403.4
32.5°	1356.6	1356.6	1357.9	1352.6	1353.9
35°	1316.4	1312.4	1311.1	1312.4	1307.1
37.5°	1261.6	1264.3	1262.9	1261.6	1265.6
40°	1209.4	1213.4	1209.4	1208.1	1214.8
42.5°	1161.3	1157.2	1153.2	1150.6	1153.2
45°	1101.1	1099.7	1097.0	1097.0	1099.7
47.5°	1044.9	1042.2	1035.5	1034.2	1035.5
50°	980.6	978.0	971.3	976.6	975.3
52.5°	919.1	913.8	907.1	909.7	909.7
55°	845.5	844.2	836.2	840.2	840.2
57.5°	769.3	774.6	771.9	770.6	771.9
60°	701.0	705.0	701.0	697.0	702.4
62.5°	630.1	627.5	622.1	622.1	622.1
65°	552.5	548.5	547.2	541.8	545.8
67.5°	476.3	472.3	469.6	468.2	468.2
70°	398.7	396.0	390.7	389.3	392.0
72.5°	318.4	319.7	317.1	314.4	318.4
75°	252.9	247.5	244.8	243.5	242.2
77.5°	179.3	176.6	175.3	175.3	176.6
80°	116.4	116.4	116.4	116.4	117.7
82.5°	66.9	68.2	66.9	69.6	70.9
85°	30.8	30.8	30.8	30.8	33.4
87.5°	10.7	9.4	9.4	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)