

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: P302638

Luminaire Tested: **FSP-24-64-40-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: P302638  
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-24-64-40-CA08  
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .08"  
Light Source: (308) 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

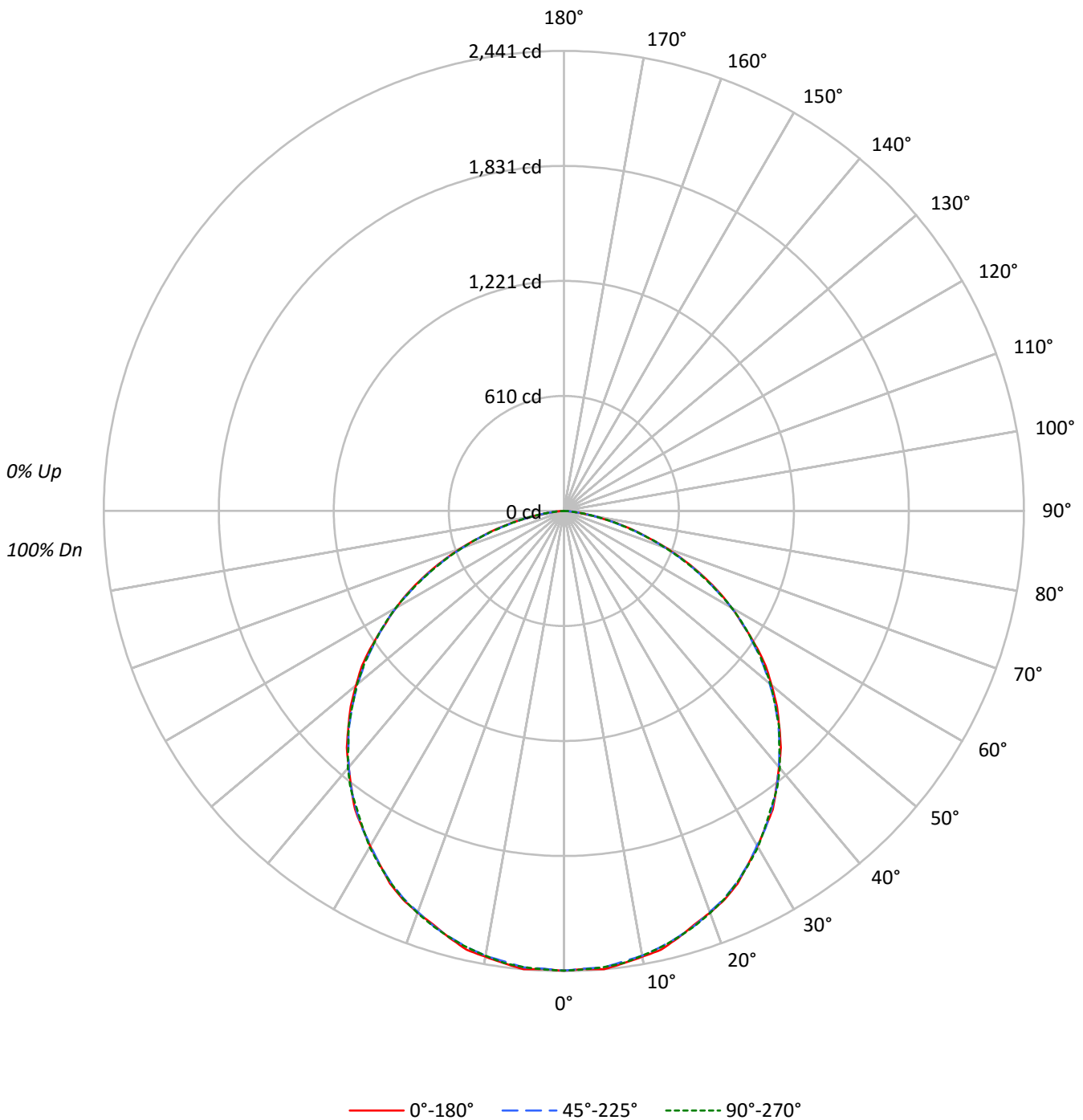
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6686.9 lumens  
Efficiency: N/A  
Efficacy: 107.5 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): 62.2  
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°	3281	3281	3281
5°	3296	3283	3281
10°	3281	3273	3273
15°	3266	3260	3263
20°	3247	3242	3250
25°	3239	3227	3230
30°	3191	3185	3200
35°	3174	3161	3151
40°	3118	3118	3132
45°	3075	3064	3071
50°	3013	2984	2996
55°	2911	2879	2893
60°	2769	2769	2774
65°	2582	2557	2550
70°	2302	2256	2263
75°	1929	1868	1848
80°	1323	1323	1339
85°	698	698	758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.7	3.5
10°-20°	660.7	9.9
20°-30°	1000.7	15.0
30°-40°	1203.4	18.0
40°-50°	1242.3	18.6
50°-60°	1103.5	16.5
60°-70°	794.3	11.9
70°-80°	384.3	5.7
80°-90°	66.9	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°	1892.1	28.3
0°-40°	3095.5	46.3
0°-60°	5441.3	81.4
0°-90°	6686.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6686.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2439	2439	2439	2439	2439	
5°	2441	2435	2431	2423	2429	231
15°	2344	2343	2341	2335	2343	662
25°	2182	2172	2174	2174	2176	1002
35°	1932	1926	1924	1926	1918	1204
45°	1616	1614	1610	1610	1614	1247
55°	1241	1239	1227	1233	1233	1107
65°	811	805	803	795	801	802
75°	371	363	359	357	355	390
85°	45	45	45	45	49	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2438.8	2438.8	2438.8	2438.8	2438.8
2.5°	2432.9	2432.9	2430.9	2432.9	2434.8
5°	2440.7	2434.8	2430.9	2423.1	2429.0
7.5°	2421.1	2415.2	2411.3	2405.4	2419.1
10°	2401.5	2401.5	2395.6	2385.8	2395.6
12.5°	2383.8	2372.0	2370.0	2368.1	2372.0
15°	2344.5	2342.6	2340.6	2334.7	2342.6
17.5°	2301.3	2307.2	2307.2	2307.2	2309.2
20°	2267.9	2264.0	2264.0	2264.0	2269.9
22.5°	2230.6	2222.8	2224.7	2216.9	2226.7
25°	2181.5	2171.7	2173.7	2173.7	2175.7
27.5°	2114.8	2114.8	2114.8	2116.7	2118.7
30°	2053.9	2057.8	2050.0	2048.0	2059.8
32.5°	1991.1	1991.1	1993.0	1985.2	1987.2
35°	1932.2	1926.3	1924.3	1926.3	1918.4
37.5°	1851.7	1855.6	1853.6	1851.7	1857.6
40°	1775.1	1781.0	1775.1	1773.1	1782.9
42.5°	1704.4	1698.5	1692.6	1688.7	1692.6
45°	1616.0	1614.1	1610.1	1610.1	1614.1
47.5°	1533.6	1529.6	1519.8	1517.9	1519.8
50°	1439.3	1435.4	1425.6	1433.4	1431.5
52.5°	1349.0	1341.1	1331.3	1335.2	1335.2
55°	1241.0	1239.0	1227.2	1233.1	1233.1
57.5°	1129.1	1136.9	1133.0	1131.0	1133.0
60°	1028.9	1034.8	1028.9	1023.0	1030.9
62.5°	924.8	920.9	913.1	913.1	913.1
65°	811.0	805.1	803.1	795.3	801.1
67.5°	699.0	693.1	689.2	687.3	687.3
70°	585.1	581.2	573.4	571.4	575.3
72.5°	467.3	469.3	465.4	461.4	467.3
75°	371.1	363.3	359.3	357.4	355.4
77.5°	263.1	259.2	257.2	257.2	259.2
80°	170.8	170.8	170.8	170.8	172.8
82.5°	98.2	100.1	98.2	102.1	104.1
85°	45.2	45.2	45.2	45.2	49.1
87.5°	15.7	13.7	13.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)