

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: P302646

Luminaire Tested: **FSP-24-64-50-CP125**

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: P302646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-24-64-50-CP125  
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"  
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

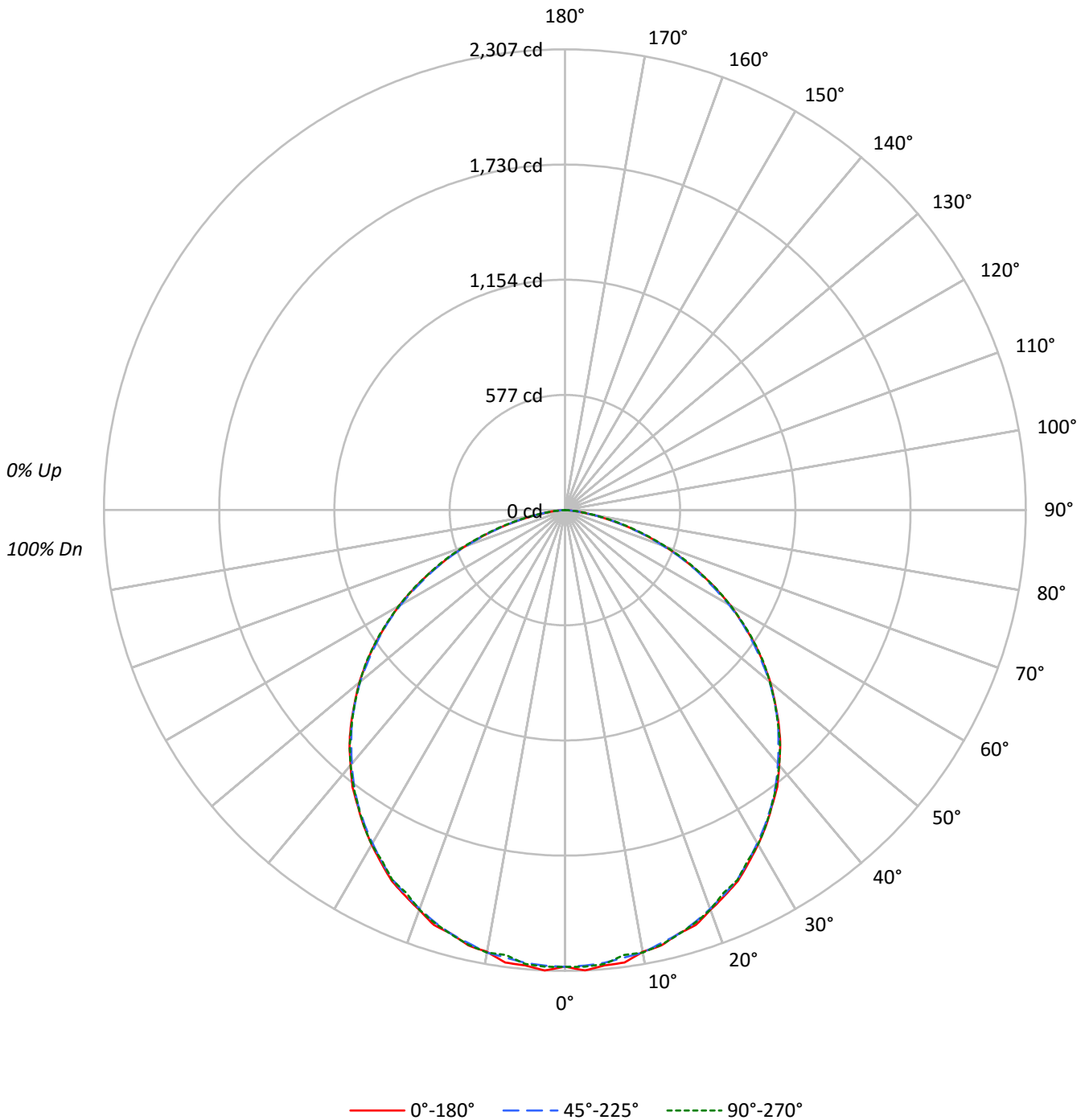
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6239.1 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.5  
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°	3077	3077	3077
5°	3091	3073	3081
10°	3068	3073	3073
15°	3058	3061	3064
20°	3051	3043	3048
25°	3042	3031	3033
30°	3004	2993	3004
35°	2969	2963	2966
40°	2930	2914	2930
45°	2881	2870	2870
50°	2811	2799	2803
55°	2710	2689	2719
60°	2579	2554	2579
65°	2377	2348	2383
70°	2097	2061	2126
75°	1699	1699	1758
80°	1180	1180	1252
85°	574	574	631



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	3.5
10°-20°	620.3	9.9
20°-30°	939.4	15.1
30°-40°	1129.3	18.1
40°-50°	1164.3	18.7
50°-60°	1028.2	16.5
60°-70°	733.2	11.8
70°-80°	350.0	5.6
80°-90°	58.0	0.9
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°	1776.2	28.5
0°-40°	2905.4	46.6
0°-60°	5097.9	81.7
0°-90°	6239.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6239.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2287	2287	2287	2287	2287	
5°	2288	2277	2276	2272	2281	218
15°	2196	2201	2198	2196	2199	622
25°	2049	2042	2042	2038	2043	942
35°	1807	1802	1804	1806	1806	1132
45°	1514	1510	1508	1510	1508	1166
55°	1155	1152	1146	1150	1159	1031
65°	747	750	738	736	749	738
75°	327	331	327	320	338	351
85°	37	37	37	39	41	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2286.7	2286.7	2286.7	2286.7	2286.7
2.5°	2307.1	2286.7	2282.9	2286.7	2288.5
5°	2288.5	2277.4	2275.5	2271.8	2281.1
7.5°	2284.8	2269.9	2260.6	2260.6	2247.6
10°	2245.8	2253.2	2249.5	2242.1	2249.5
12.5°	2232.8	2225.4	2221.6	2221.6	2229.1
15°	2195.6	2201.2	2197.5	2195.6	2199.3
17.5°	2178.9	2169.6	2164.1	2162.2	2167.8
20°	2130.6	2125.0	2125.0	2126.9	2128.8
22.5°	2089.8	2082.3	2084.2	2089.8	2074.9
25°	2048.9	2041.5	2041.5	2037.7	2043.3
27.5°	1991.3	1987.6	1983.9	1987.6	1980.2
30°	1933.7	1928.1	1926.3	1931.9	1933.7
32.5°	1874.3	1870.6	1866.8	1868.7	1872.4
35°	1807.4	1801.8	1803.7	1805.5	1805.5
37.5°	1746.1	1736.8	1735.0	1740.5	1738.7
40°	1668.1	1671.8	1658.8	1666.2	1668.1
42.5°	1595.6	1588.2	1582.6	1599.4	1593.8
45°	1513.9	1510.2	1508.3	1510.2	1508.3
47.5°	1426.6	1428.5	1422.9	1430.3	1424.7
50°	1343.0	1344.9	1337.4	1337.4	1339.3
52.5°	1250.1	1255.7	1240.8	1239.0	1253.9
55°	1155.4	1151.7	1146.1	1149.8	1159.1
57.5°	1055.1	1056.9	1053.2	1055.1	1058.8
60°	958.5	954.8	949.2	939.9	958.5
62.5°	852.6	856.3	839.6	839.6	858.2
65°	746.7	750.5	737.5	735.6	748.6
67.5°	639.0	639.0	633.4	624.1	648.3
70°	533.1	533.1	523.8	523.8	540.5
72.5°	427.2	425.4	423.5	418.0	436.5
75°	326.9	330.6	326.9	319.5	338.1
77.5°	234.1	237.8	232.2	234.1	243.3
80°	152.3	152.3	152.3	150.5	161.6
82.5°	89.2	87.3	87.3	89.2	92.9
85°	37.2	37.2	37.2	39.0	40.9
87.5°	9.3	9.3	11.1	9.3	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)