

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: P302639

Luminaire Tested: **FSP-24-64-40-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: P302639
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-24-64-40-CA125
Description: 2x4 Fail Safe Flat Panel Clear Acrylic 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

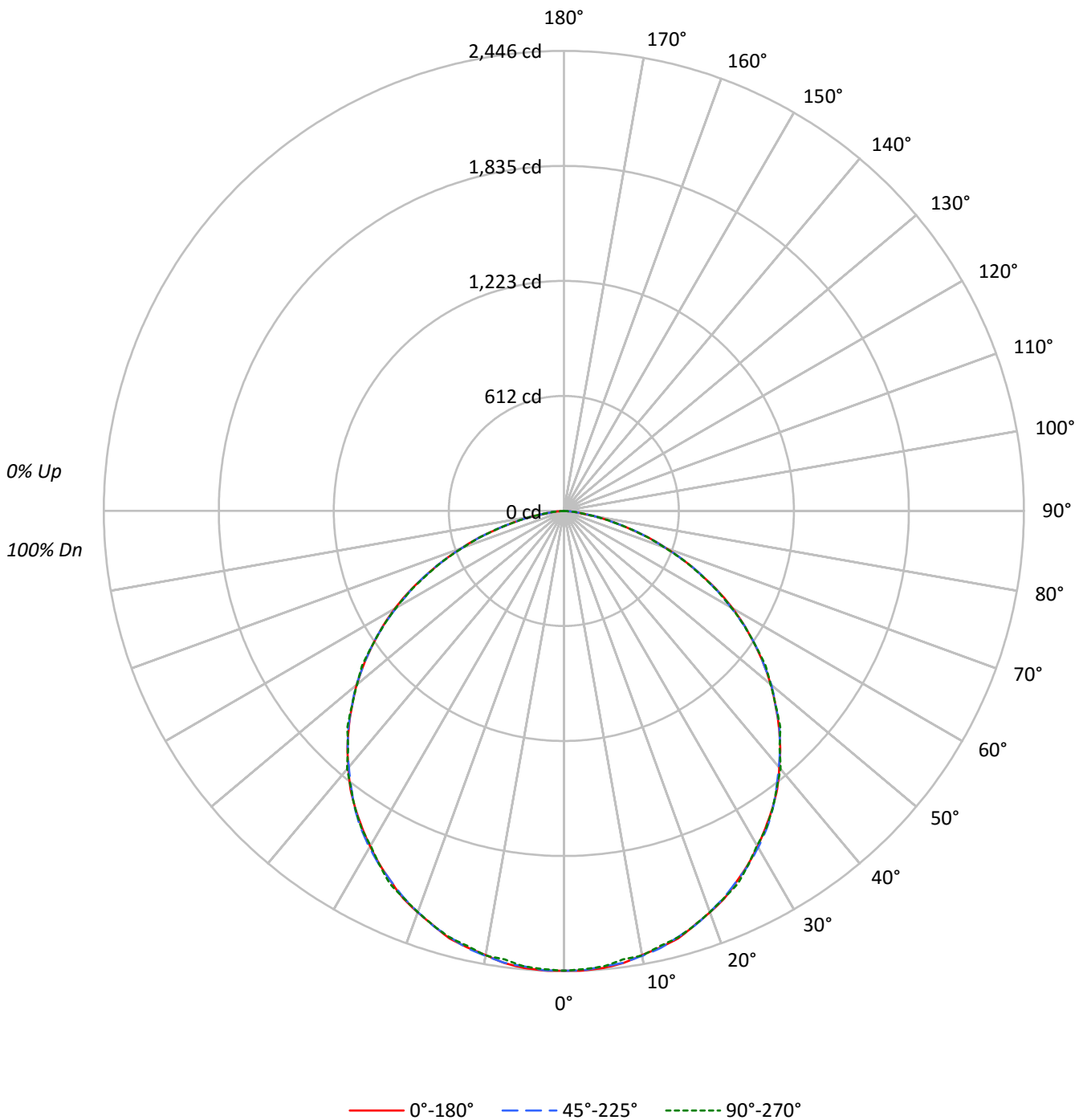
Lumens per Lamp: N/A
Luminaire Lumens: 6707.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 62.2
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P302639
CATALOG NUMBER: FSP-24-64-40-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P302639

CATALOG NUMBER: FSP-24-64-40-CA125

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°	3288	3288	3288
5°	3293	3283	3283
10°	3275	3281	3278
15°	3277	3266	3269
20°	3252	3249	3249
25°	3228	3225	3248
30°	3200	3209	3191
35°	3173	3179	3176
40°	3131	3124	3148
45°	3074	3082	3096
50°	3009	3017	3004
55°	2912	2917	2912
60°	2792	2761	2771
65°	2575	2581	2550
70°	2281	2266	2258
75°	1855	1876	1865
80°	1323	1323	1307
85°	628	628	659



TEST NUMBER: P302639

CATALOG NUMBER: FSP-24-64-40-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.9	3.4
10°-20°	661.9	9.9
20°-30°	1002.8	15.0
30°-40°	1207.9	18.0
40°-50°	1247.2	18.6
50°-60°	1109.4	16.5
60°-70°	798.1	11.9
70°-80°	385.2	5.7
80°-90°	63.9	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°	1895.6	28.3
0°-40°	3103.6	46.3
0°-60°	5460.2	81.4
0°-90°	6707.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6707.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2444	2444	2444	2444	2444	
5°	2438	2428	2430	2424	2430	232
15°	2353	2349	2345	2351	2347	662
25°	2174	2174	2172	2172	2188	1003
35°	1932	1930	1936	1934	1934	1208
45°	1616	1618	1620	1618	1627	1246
55°	1241	1239	1243	1245	1241	1109
65°	809	811	811	813	801	801
75°	357	359	361	361	359	385
85°	41	43	41	41	43	63
90°	0	0	0	0	0	



TEST NUMBER: P302639

CATALOG NUMBER: FSP-24-64-40-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2443.9	2443.9	2443.9	2443.9	2443.9
2.5°	2445.9	2443.9	2443.9	2432.3	2438.1
5°	2438.1	2428.4	2430.4	2424.5	2430.4
7.5°	2424.5	2418.7	2422.6	2409.0	2405.1
10°	2397.4	2399.3	2401.3	2391.6	2399.3
12.5°	2376.0	2381.9	2379.9	2370.2	2368.3
15°	2352.8	2348.9	2345.0	2350.8	2346.9
17.5°	2310.1	2306.2	2312.0	2310.1	2310.1
20°	2271.3	2269.4	2269.4	2263.5	2269.4
22.5°	2230.6	2224.8	2224.8	2232.5	2226.7
25°	2174.3	2174.3	2172.4	2172.4	2187.9
27.5°	2120.0	2118.1	2123.9	2127.8	2122.0
30°	2059.9	2059.9	2065.7	2061.8	2054.1
32.5°	1995.9	1993.9	2005.6	1999.8	2001.7
35°	1931.9	1929.9	1935.7	1933.8	1933.8
37.5°	1864.0	1852.3	1856.2	1865.9	1858.2
40°	1782.5	1780.6	1778.6	1782.5	1792.2
42.5°	1703.0	1699.1	1701.1	1704.9	1697.2
45°	1615.7	1617.6	1619.6	1617.6	1627.3
47.5°	1526.5	1530.4	1526.5	1536.2	1526.5
50°	1437.3	1435.3	1441.1	1441.1	1435.3
52.5°	1340.3	1342.2	1340.3	1348.0	1351.9
55°	1241.4	1239.4	1243.3	1245.2	1241.4
57.5°	1140.5	1140.5	1138.6	1146.3	1138.6
60°	1037.7	1029.9	1026.1	1029.9	1029.9
62.5°	925.2	919.4	919.4	919.4	919.4
65°	808.8	810.8	810.8	812.7	801.1
67.5°	696.3	692.4	696.3	690.5	692.4
70°	579.9	581.9	576.1	579.9	574.1
72.5°	471.3	471.3	471.3	467.4	467.4
75°	356.9	358.8	360.8	360.8	358.8
77.5°	259.9	258.0	259.9	259.9	259.9
80°	170.7	166.8	170.7	168.7	168.7
82.5°	95.0	97.0	97.0	98.9	98.9
85°	40.7	42.7	40.7	40.7	42.7
87.5°	11.6	11.6	11.6	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)