

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: P302555

Luminaire Tested: **FSP-22-32-40-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: P302555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FSP-22-32-40-CA125  
Description: 2x2 Fail Safe Flat Panel Clear Acrylic Lens .125"  
Light Source: (168) 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

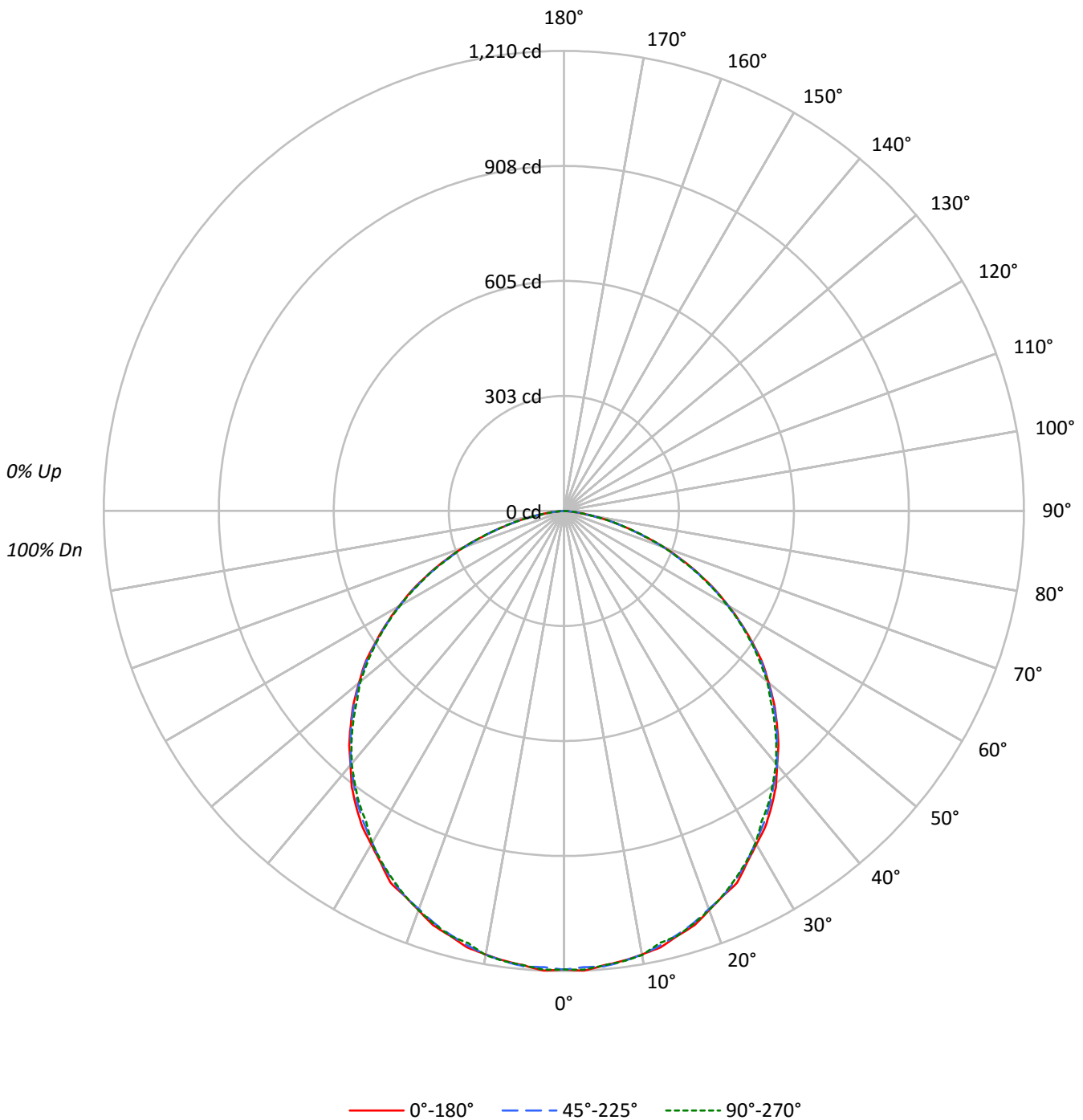
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3269.5 lumens  
Efficiency: N/A  
Efficacy: 112.0 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 29.2  
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	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°	3246	3246	3246
5°	3241	3248	3241
10°	3237	3237	3240
15°	3222	3215	3222
20°	3199	3191	3199
25°	3203	3177	3169
30°	3146	3131	3134
35°	3125	3100	3084
40°	3065	3065	3047
45°	3015	3010	2981
50°	2943	2938	2922
55°	2845	2832	2821
60°	2694	2687	2673
65°	2498	2481	2474
70°	2224	2185	2215
75°	1787	1775	1787
80°	1283	1243	1243
85°	630	630	630



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.1	3.5
10°-20°	325.9	10.0
20°-30°	492.2	15.1
30°-40°	590.3	18.1
40°-50°	608.0	18.6
50°-60°	538.4	16.5
60°-70°	385.1	11.8
70°-80°	184.3	5.6
80°-90°	31.2	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°	932.3	28.5
0°-40°	1522.6	46.6
0°-60°	2668.9	81.6
0°-90°	3269.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1200	1198	1202	1200	1200	114
15°	1156	1156	1154	1154	1156	327
25°	1079	1071	1070	1066	1067	494
35°	951	946	944	941	939	594
45°	792	791	791	787	783	611
55°	606	604	604	600	601	541
65°	392	390	390	390	388	388
75°	172	172	171	171	172	185
85°	20	20	20	20	20	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1210.0	1206.1	1201.0	1204.9	1207.4
5°	1199.8	1198.5	1202.3	1199.8	1199.8
7.5°	1193.4	1196.0	1194.7	1194.7	1194.7
10°	1184.5	1184.5	1184.5	1183.2	1185.8
12.5°	1175.6	1169.2	1170.5	1170.5	1164.1
15°	1156.5	1156.5	1153.9	1153.9	1156.5
17.5°	1142.5	1139.9	1136.1	1136.1	1137.4
20°	1117.0	1117.0	1114.4	1111.9	1117.0
22.5°	1095.3	1100.4	1095.3	1090.2	1094.1
25°	1078.8	1071.1	1069.9	1066.0	1067.3
27.5°	1043.1	1039.3	1040.6	1038.0	1039.3
30°	1012.5	1010.0	1007.5	1004.9	1008.7
32.5°	985.8	983.3	976.9	975.6	968.0
35°	951.4	946.3	943.8	941.2	938.7
37.5°	915.8	910.7	906.8	905.6	903.0
40°	872.4	869.9	872.4	866.1	867.4
42.5°	835.5	833.0	829.1	826.6	826.6
45°	792.2	790.9	790.9	787.1	783.3
47.5°	750.2	748.9	746.4	741.3	737.4
50°	703.1	704.3	701.8	696.7	698.0
52.5°	659.7	652.1	655.9	650.8	649.6
55°	606.3	603.7	603.7	599.9	601.2
57.5°	554.0	554.0	551.5	551.5	550.2
60°	500.5	499.3	499.3	498.0	496.7
62.5°	448.3	447.0	444.5	444.5	443.2
65°	392.3	389.7	389.7	389.7	388.5
67.5°	336.2	333.7	332.4	332.4	331.1
70°	282.7	278.9	277.7	277.7	281.5
72.5°	222.9	224.2	222.9	224.2	225.4
75°	171.9	171.9	170.7	170.7	171.9
77.5°	124.8	124.8	124.8	124.8	126.1
80°	82.8	80.2	80.2	80.2	80.2
82.5°	45.9	45.9	45.9	47.1	48.4
85°	20.4	20.4	20.4	20.4	20.4
87.5°	7.6	7.6	7.6	7.6	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)