

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: P302561

Luminaire Tested: **FSP-22-32-50-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: P302561
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-22-32-50-CA125
Description: 2x2 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (168) 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

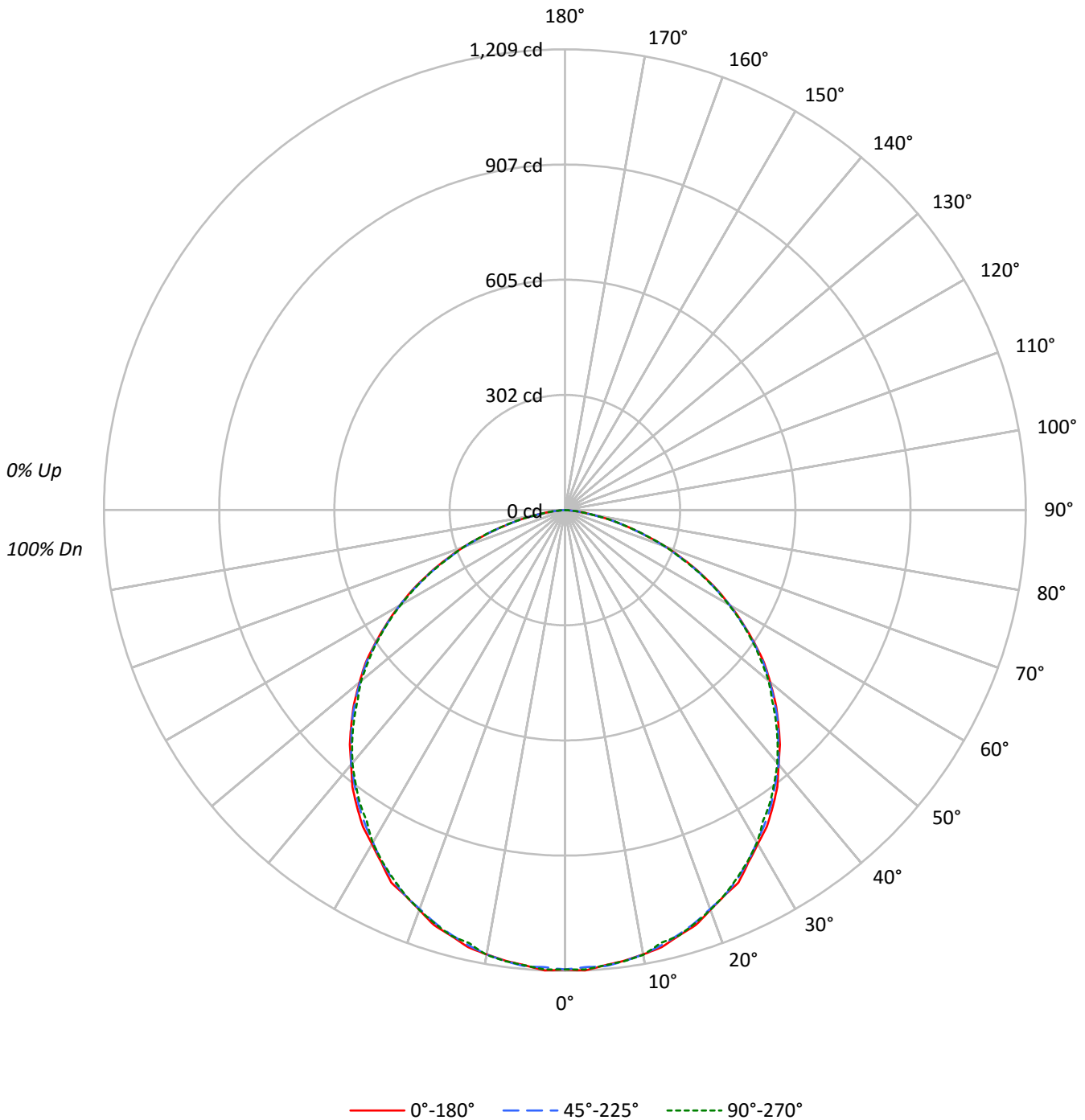
Lumens per Lamp: N/A
Luminaire Lumens: 3267.4 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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



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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°	3244	3244	3244
5°	3239	3246	3239
10°	3235	3235	3238
15°	3220	3213	3220
20°	3197	3189	3197
25°	3201	3175	3167
30°	3144	3128	3132
35°	3123	3098	3082
40°	3063	3063	3045
45°	3013	3008	2979
50°	2941	2936	2920
55°	2843	2830	2819
60°	2692	2686	2672
65°	2496	2480	2472
70°	2223	2183	2213
75°	1786	1774	1786
80°	1282	1243	1243
85°	630	630	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.0	3.5
10°-20°	325.7	10.0
20°-30°	491.9	15.1
30°-40°	589.9	18.1
40°-50°	607.6	18.6
50°-60°	538.1	16.5
60°-70°	384.8	11.8
70°-80°	184.2	5.6
80°-90°	31.1	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°	931.7	28.5
0°-40°	1521.6	46.6
0°-60°	2667.3	81.6
0°-90°	3267.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1199	1198	1202	1199	1199	114
15°	1156	1156	1153	1153	1156	327
25°	1078	1070	1069	1065	1067	494
35°	951	946	943	941	938	594
45°	792	790	790	787	783	611
55°	606	603	603	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°	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1209.2	1205.4	1200.3	1204.1	1206.7
5°	1199.0	1197.8	1201.6	1199.0	1199.0
7.5°	1192.7	1195.2	1193.9	1193.9	1193.9
10°	1183.8	1183.8	1183.8	1182.5	1185.0
12.5°	1174.8	1168.5	1169.7	1169.7	1163.4
15°	1155.7	1155.7	1153.2	1153.2	1155.7
17.5°	1141.7	1139.2	1135.4	1135.4	1136.7
20°	1116.3	1116.3	1113.7	1111.2	1116.3
22.5°	1094.7	1099.7	1094.7	1089.6	1093.4
25°	1078.1	1070.5	1069.2	1065.4	1066.6
27.5°	1042.5	1038.6	1039.9	1037.4	1038.6
30°	1011.9	1009.4	1006.8	1004.3	1008.1
32.5°	985.2	982.6	976.3	975.0	967.4
35°	950.8	945.7	943.2	940.6	938.1
37.5°	915.2	910.1	906.3	905.0	902.5
40°	871.9	869.4	871.9	865.5	866.8
42.5°	835.0	832.4	828.6	826.1	826.1
45°	791.7	790.4	790.4	786.6	782.8
47.5°	749.7	748.4	745.9	740.8	737.0
50°	702.6	703.9	701.3	696.2	697.5
52.5°	659.3	651.7	655.5	650.4	649.2
55°	605.9	603.3	603.3	599.5	600.8
57.5°	553.7	553.7	551.1	551.1	549.9
60°	500.2	499.0	499.0	497.7	496.4
62.5°	448.0	446.8	444.2	444.2	443.0
65°	392.0	389.5	389.5	389.5	388.2
67.5°	336.0	333.5	332.2	332.2	330.9
70°	282.6	278.8	277.5	277.5	281.3
72.5°	222.7	224.0	222.7	224.0	225.3
75°	171.8	171.8	170.6	170.6	171.8
77.5°	124.7	124.7	124.7	124.7	126.0
80°	82.7	80.2	80.2	80.2	80.2
82.5°	45.8	45.8	45.8	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)