

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: P302472

Luminaire Tested: **FSP-14-26-30-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: P302472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-14-26-30-CP125
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (154) 3000 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

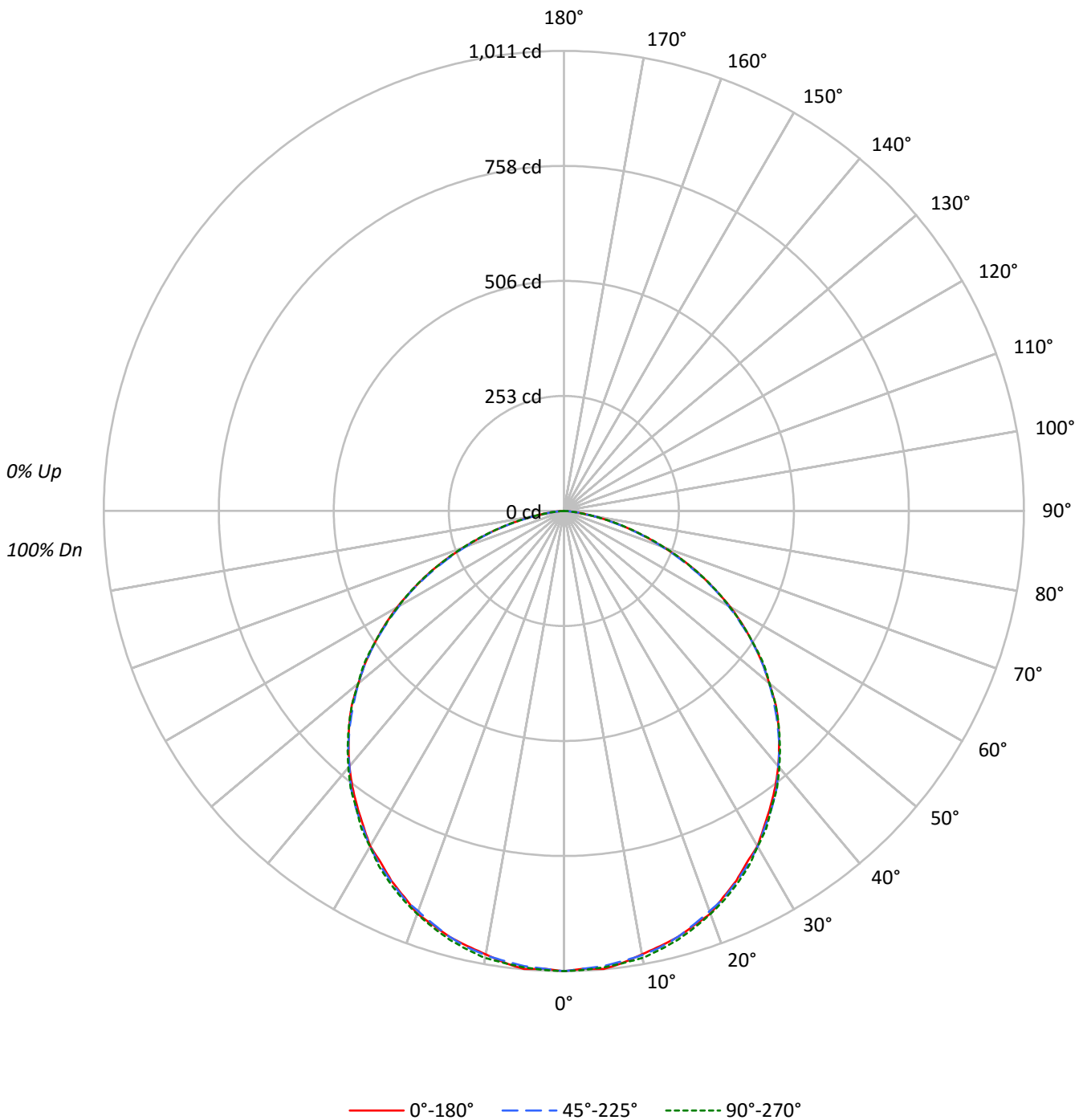
Lumens per Lamp: N/A
Luminaire Lumens: 2747.9 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.5
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	55	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	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	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°	2721	2721	2721
5°	2729	2712	2719
10°	2703	2708	2725
15°	2700	2700	2715
20°	2696	2680	2699
25°	2662	2667	2681
30°	2643	2646	2646
35°	2601	2617	2614
40°	2576	2576	2588
45°	2539	2528	2542
50°	2466	2466	2470
55°	2385	2381	2389
60°	2277	2252	2262
65°	2103	2074	2103
70°	1841	1819	1862
75°	1508	1488	1526
80°	1066	1038	1066
85°	509	482	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	3.5
10°-20°	273.8	10.0
20°-30°	414.3	15.1
30°-40°	497.6	18.1
40°-50°	512.7	18.7
50°-60°	452.7	16.5
60°-70°	322.7	11.7
70°-80°	153.9	5.6
80°-90°	24.6	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°	783.7	28.5
0°-40°	1281.3	46.6
0°-60°	2246.7	81.8
0°-90°	2747.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2747.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1011	1011	1011	1011	1011	
5°	1010	1007	1004	1007	1007	96
15°	969	969	969	970	974	273
25°	896	895	898	903	903	413
35°	792	795	796	798	796	496
45°	667	664	664	667	668	514
55°	508	508	507	505	509	454
65°	330	328	326	322	330	326
75°	145	144	143	141	147	155
85°	16	16	16	16	16	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1011.2	1011.2	1011.2	1011.2	1011.2
2.5°	1006.6	1007.5	1006.6	1010.3	1009.4
5°	1010.3	1006.6	1003.9	1006.6	1006.6
7.5°	1001.1	998.4	997.4	1002.9	1002.0
10°	989.2	995.6	991.0	994.7	997.4
12.5°	979.1	983.7	981.8	991.0	986.4
15°	969.0	969.0	969.0	969.9	974.5
17.5°	954.3	953.4	952.5	956.2	958.9
20°	941.5	934.1	936.0	941.5	942.4
22.5°	917.6	921.3	920.4	924.0	924.0
25°	896.5	894.7	898.3	902.9	902.9
27.5°	870.8	873.6	876.3	878.2	880.0
30°	850.6	847.0	851.5	852.5	851.5
32.5°	820.3	819.4	823.1	827.7	827.7
35°	791.9	794.7	796.5	798.3	795.6
37.5°	763.5	762.5	768.0	767.1	769.0
40°	733.2	732.3	733.2	735.0	736.8
42.5°	700.1	697.4	701.1	702.0	702.9
45°	667.1	664.4	664.4	667.1	668.0
47.5°	632.2	626.7	626.7	627.6	631.3
50°	589.1	588.2	589.1	587.3	590.0
52.5°	550.6	549.6	549.6	547.8	554.2
55°	508.4	508.4	507.4	504.7	509.3
57.5°	466.1	465.2	462.5	462.5	465.2
60°	423.0	420.3	418.4	415.7	420.3
62.5°	375.3	375.3	374.4	368.9	376.2
65°	330.3	327.6	325.8	322.1	330.3
67.5°	283.5	280.8	277.1	276.2	283.5
70°	234.0	234.9	231.2	228.5	236.7
72.5°	187.2	190.9	185.4	184.4	190.9
75°	145.0	144.1	143.1	141.3	146.8
77.5°	104.6	103.7	102.8	100.9	106.4
80°	68.8	68.8	67.0	66.1	68.8
82.5°	38.5	37.6	36.7	37.6	39.5
85°	16.5	15.6	15.6	15.6	15.6
87.5°	3.7	3.7	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)