

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: P302471

Luminaire Tested: **FSP-14-26-30-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: P302471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-3)
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-CA125
Description: 1x4 Fail Safe Flat Panel Clear Acrylic 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

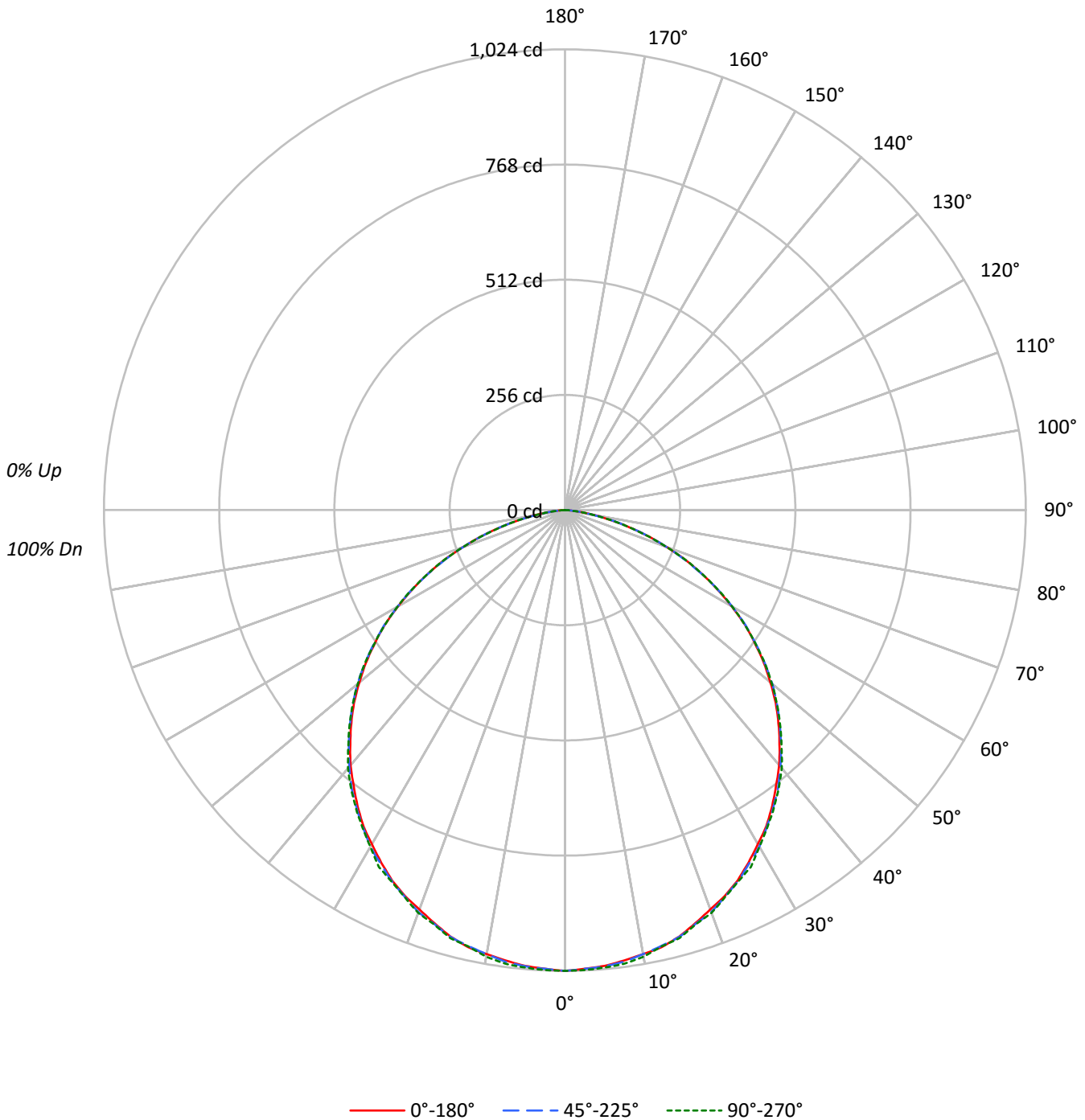
Lumens per Lamp: N/A
Luminaire Lumens: 2798.9 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	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	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	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	36	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°	2756	2756	2756
5°	2747	2749	2757
10°	2739	2739	2754
15°	2734	2736	2744
20°	2705	2723	2729
25°	2696	2701	2704
30°	2665	2685	2685
35°	2638	2652	2659
40°	2602	2618	2634
45°	2554	2572	2575
50°	2496	2519	2515
55°	2415	2428	2424
60°	2303	2308	2313
65°	2143	2137	2148
70°	1892	1899	1899
75°	1549	1560	1540
80°	1105	1077	1077
85°	509	509	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.5
10°-20°	277.0	9.9
20°-30°	419.3	15.0
30°-40°	504.9	18.0
40°-50°	520.8	18.6
50°-60°	462.3	16.5
60°-70°	332.4	11.9
70°-80°	160.0	5.7
80°-90°	25.5	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°	793.1	28.3
0°-40°	1298.0	46.4
0°-60°	2281.0	81.5
0°-90°	2798.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2798.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1017	1020	1018	1017	1020	97
15°	981	984	982	980	985	276
25°	908	911	910	911	911	418
35°	803	805	807	809	809	502
45°	671	676	676	677	677	518
55°	515	520	518	522	517	460
65°	336	336	336	336	337	332
75°	149	151	150	148	148	160
85°	16	16	16	16	16	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1024.1	1024.1	1024.1	1024.1	1024.1
2.5°	1020.5	1024.1	1020.5	1019.6	1023.2
5°	1016.8	1019.6	1017.7	1016.8	1020.5
7.5°	1009.5	1014.1	1012.3	1011.3	1016.8
10°	1002.2	1005.9	1002.2	1004.9	1007.7
12.5°	994.9	997.6	992.1	995.8	993.1
15°	981.2	983.9	982.1	980.3	984.8
17.5°	962.9	967.5	964.7	967.5	965.6
20°	944.6	948.2	951.0	949.2	952.8
22.5°	928.1	930.0	930.0	931.8	930.9
25°	908.0	910.8	909.8	910.8	910.8
27.5°	883.3	885.2	886.1	887.9	894.3
30°	857.7	861.4	864.1	865.0	864.1
32.5°	833.0	834.9	834.9	838.5	836.7
35°	802.9	804.7	807.4	809.3	809.3
37.5°	770.9	773.6	778.2	780.0	780.0
40°	740.7	743.4	745.2	751.6	749.8
42.5°	705.9	711.4	710.5	711.4	712.3
45°	671.2	675.8	675.8	676.7	676.7
47.5°	635.5	639.2	639.2	639.2	639.2
50°	596.2	598.0	601.7	598.9	600.8
52.5°	556.9	560.5	560.5	558.7	560.5
55°	514.8	520.3	517.6	522.1	516.6
57.5°	474.6	475.5	475.5	474.6	473.7
60°	427.9	431.6	428.9	427.0	429.8
62.5°	382.2	384.1	384.1	383.1	384.1
65°	336.5	336.5	335.6	336.5	337.4
67.5°	290.8	290.8	288.0	286.2	291.7
70°	240.5	243.2	241.4	241.4	241.4
72.5°	195.7	193.9	194.8	192.9	193.9
75°	149.0	150.9	150.0	148.1	148.1
77.5°	107.0	109.7	107.9	107.0	107.9
80°	71.3	70.4	69.5	69.5	69.5
82.5°	41.1	39.3	39.3	38.4	38.4
85°	16.5	16.5	16.5	15.5	15.5
87.5°	3.7	3.7	3.7	2.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)