

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: P302478

Luminaire Tested: **FSP-14-26-35-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: P302478
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-14-26-35-CP125
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (154) 3500 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

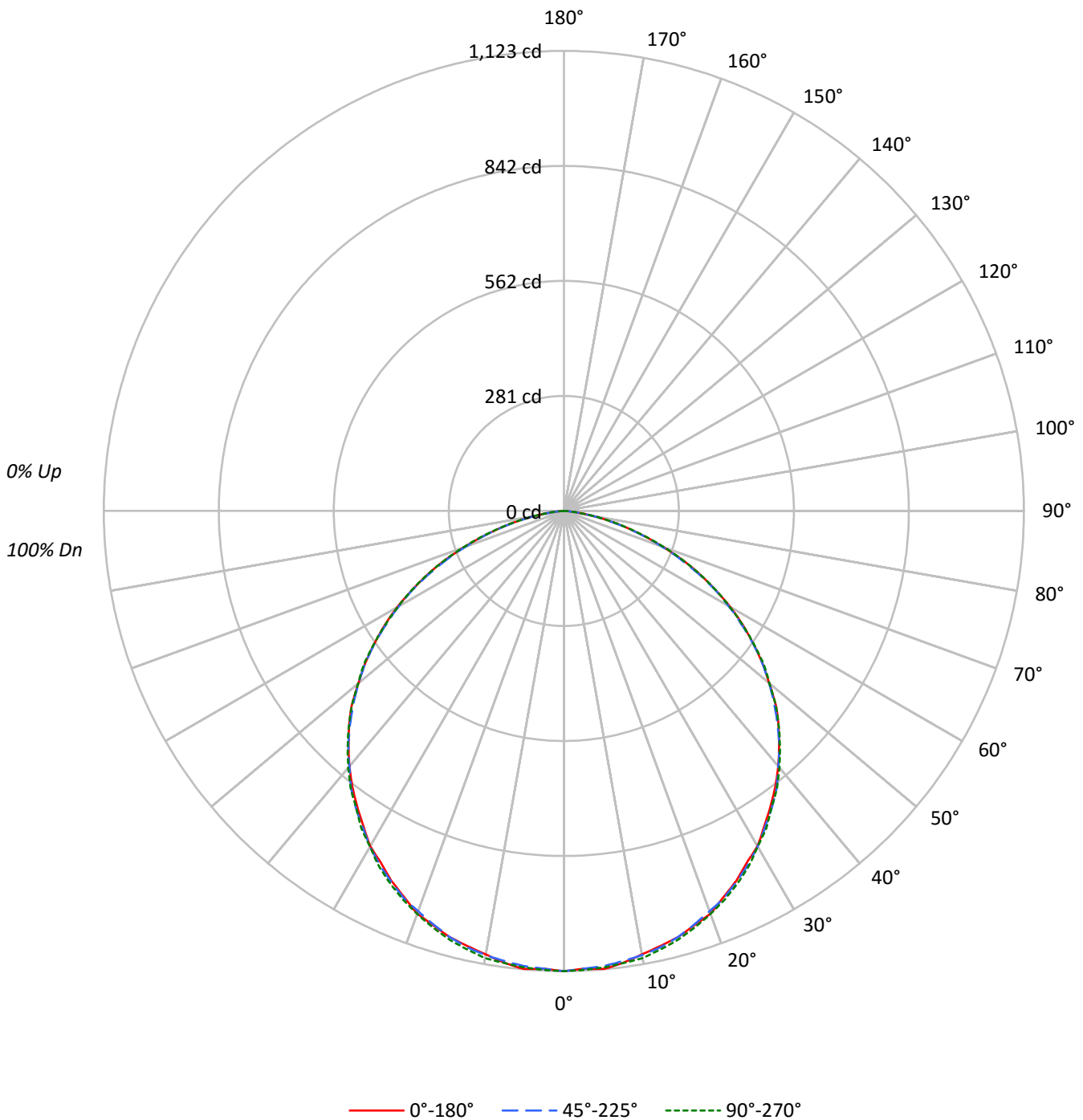
Lumens per Lamp: N/A
Luminaire Lumens: 3052.6 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3023	3023	3023
5°	3032	3012	3021
10°	3003	3008	3028
15°	2999	2999	3016
20°	2995	2978	2998
25°	2957	2963	2978
30°	2936	2939	2939
35°	2890	2907	2903
40°	2861	2861	2876
45°	2820	2809	2824
50°	2740	2740	2744
55°	2649	2645	2654
60°	2529	2502	2513
65°	2337	2304	2337
70°	2045	2021	2069
75°	1675	1653	1696
80°	1185	1153	1185
85°	565	534	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.5
10°-20°	304.2	10.0
20°-30°	460.3	15.1
30°-40°	552.8	18.1
40°-50°	569.5	18.7
50°-60°	502.9	16.5
60°-70°	358.5	11.7
70°-80°	171.0	5.6
80°-90°	27.3	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°	870.7	28.5
0°-40°	1423.5	46.6
0°-60°	2495.9	81.8
0°-90°	3052.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1122	1118	1115	1118	1118	106
15°	1076	1076	1076	1078	1083	304
25°	996	994	998	1003	1003	459
35°	880	883	885	887	884	551
45°	741	738	738	741	742	571
55°	565	565	564	561	566	504
65°	367	364	362	358	367	362
75°	161	160	159	157	163	172
85°	18	17	17	17	17	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1118.3	1119.3	1118.3	1122.3	1121.3
5°	1122.3	1118.3	1115.2	1118.3	1118.3
7.5°	1112.2	1109.1	1108.1	1114.2	1113.2
10°	1098.9	1106.0	1100.9	1105.0	1108.1
12.5°	1087.7	1092.8	1090.7	1100.9	1095.8
15°	1076.5	1076.5	1076.5	1077.5	1082.6
17.5°	1060.2	1059.1	1058.1	1062.2	1065.3
20°	1045.9	1037.7	1039.8	1045.9	1046.9
22.5°	1019.4	1023.5	1022.4	1026.5	1026.5
25°	995.9	993.9	998.0	1003.1	1003.1
27.5°	967.4	970.5	973.5	975.6	977.6
30°	945.0	940.9	946.0	947.0	946.0
32.5°	911.3	910.3	914.4	919.5	919.5
35°	879.7	882.8	884.8	886.9	883.8
37.5°	848.1	847.1	853.2	852.2	854.2
40°	814.5	813.5	814.5	816.5	818.6
42.5°	777.8	774.7	778.8	779.8	780.9
45°	741.1	738.0	738.0	741.1	742.1
47.5°	702.4	696.2	696.2	697.3	701.3
50°	654.4	653.4	654.4	652.4	655.5
52.5°	611.6	610.6	610.6	608.6	615.7
55°	564.7	564.7	563.7	560.7	565.8
57.5°	517.9	516.8	513.8	513.8	516.8
60°	469.9	466.9	464.8	461.8	466.9
62.5°	416.9	416.9	415.9	409.8	418.0
65°	367.0	363.9	361.9	357.8	367.0
67.5°	315.0	311.9	307.9	306.8	315.0
70°	259.9	261.0	256.9	253.8	263.0
72.5°	208.0	212.0	205.9	204.9	212.0
75°	161.1	160.0	159.0	157.0	163.1
77.5°	116.2	115.2	114.2	112.1	118.2
80°	76.5	76.5	74.4	73.4	76.5
82.5°	42.8	41.8	40.8	41.8	43.8
85°	18.3	17.3	17.3	17.3	17.3
87.5°	4.1	4.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)