

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: P302495

Luminaire Tested: **FSP-14-30HE-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: P302495
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-14-30HE-40-CA125
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (266) 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

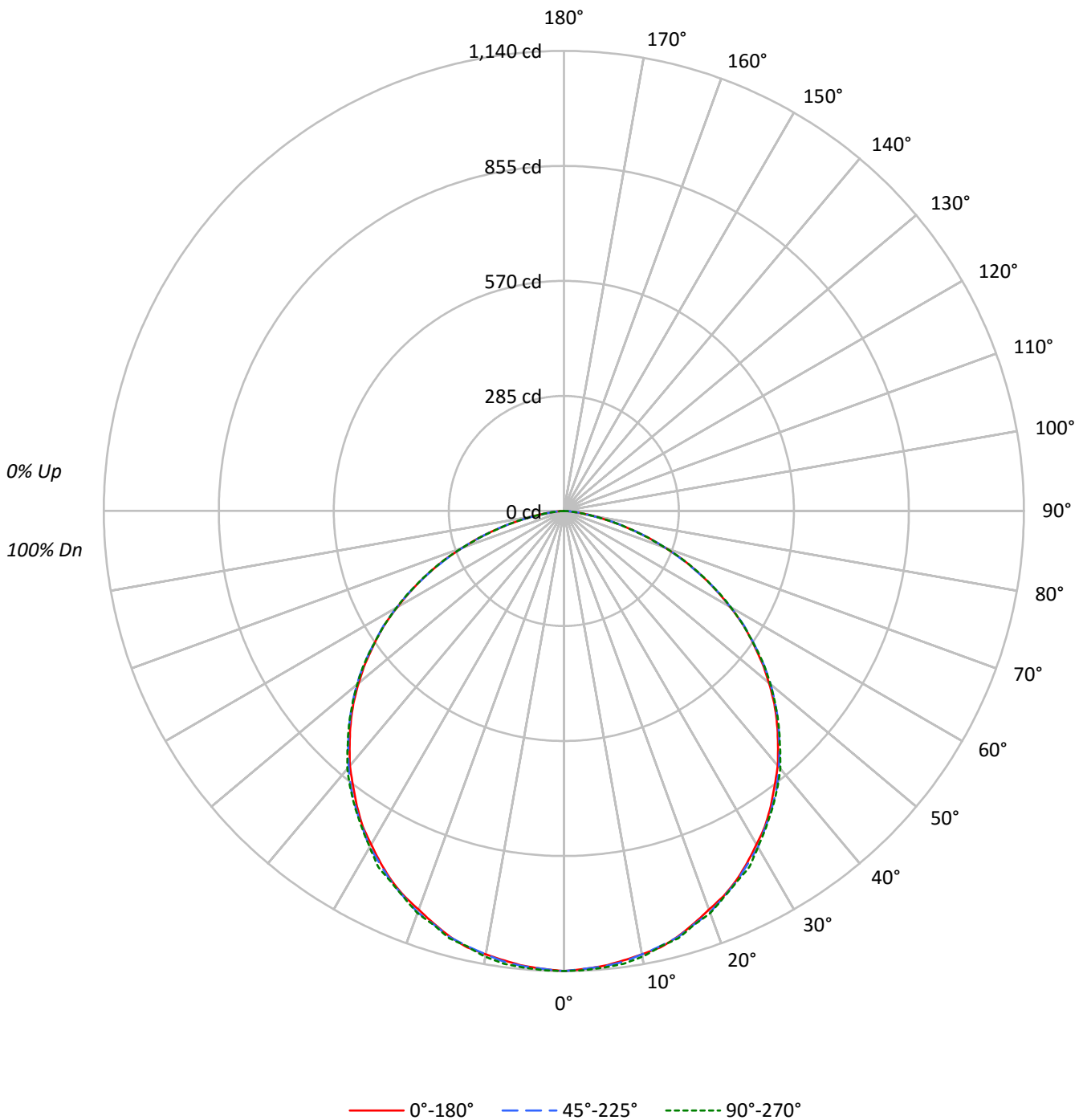
Lumens per Lamp: N/A
Luminaire Lumens: 3115.3 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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°	3067	3067	3067
5°	3057	3060	3068
10°	3048	3048	3065
15°	3042	3045	3054
20°	3011	3031	3037
25°	3001	3007	3010
30°	2967	2989	2989
35°	2936	2952	2959
40°	2896	2914	2932
45°	2843	2862	2866
50°	2778	2804	2799
55°	2688	2703	2698
60°	2563	2569	2575
65°	2385	2378	2392
70°	2106	2114	2114
75°	1725	1735	1714
80°	1230	1199	1199
85°	565	565	534



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	3.5
10°-20°	308.3	9.9
20°-30°	466.7	15.0
30°-40°	562.0	18.0
40°-50°	579.6	18.6
50°-60°	514.6	16.5
60°-70°	370.0	11.9
70°-80°	178.1	5.7
80°-90°	28.4	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°	882.7	28.3
0°-40°	1444.7	46.4
0°-60°	2538.9	81.5
0°-90°	3115.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3115.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1132	1135	1133	1132	1136	107
15°	1092	1095	1093	1091	1096	308
25°	1011	1014	1013	1014	1014	465
35°	894	896	899	901	901	559
45°	747	752	752	753	753	576
55°	573	579	576	581	575	512
65°	374	374	374	374	376	370
75°	166	168	167	165	165	178
85°	18	18	18	17	17	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1139.9	1139.9	1139.9	1139.9	1139.9
2.5°	1135.9	1139.9	1135.9	1134.8	1138.9
5°	1131.8	1134.8	1132.8	1131.8	1135.9
7.5°	1123.6	1128.7	1126.7	1125.7	1131.8
10°	1115.5	1119.6	1115.5	1118.6	1121.6
12.5°	1107.4	1110.4	1104.3	1108.4	1105.3
15°	1092.1	1095.1	1093.1	1091.1	1096.2
17.5°	1071.7	1076.8	1073.8	1076.8	1074.8
20°	1051.4	1055.4	1058.5	1056.5	1060.5
22.5°	1033.1	1035.1	1035.1	1037.1	1036.1
25°	1010.7	1013.7	1012.7	1013.7	1013.7
27.5°	983.2	985.2	986.2	988.3	995.4
30°	954.7	958.8	961.8	962.8	961.8
32.5°	927.2	929.2	929.2	933.3	931.3
35°	893.6	895.7	898.7	900.7	900.7
37.5°	858.0	861.1	866.1	868.2	868.2
40°	824.4	827.5	829.5	836.6	834.6
42.5°	785.7	791.8	790.8	791.8	792.9
45°	747.1	752.1	752.1	753.2	753.2
47.5°	707.4	711.4	711.4	711.4	711.4
50°	663.6	665.6	669.7	666.7	668.7
52.5°	619.8	623.9	623.9	621.9	623.9
55°	573.0	579.1	576.1	581.2	575.1
57.5°	528.2	529.3	529.3	528.2	527.2
60°	476.3	480.4	477.3	475.3	478.4
62.5°	425.4	427.5	427.5	426.5	427.5
65°	374.5	374.5	373.5	374.5	375.6
67.5°	323.7	323.7	320.6	318.6	324.7
70°	267.7	270.7	268.7	268.7	268.7
72.5°	217.8	215.8	216.8	214.8	215.8
75°	165.9	167.9	166.9	164.9	164.9
77.5°	119.1	122.1	120.1	119.1	120.1
80°	79.4	78.4	77.4	77.4	77.4
82.5°	45.8	43.8	43.8	42.7	42.7
85°	18.3	18.3	18.3	17.3	17.3
87.5°	4.1	4.1	4.1	3.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)