

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: P302489

Luminaire Tested: **FSP-14-30HE-35-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: P302489
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-35-CA125
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (224) 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

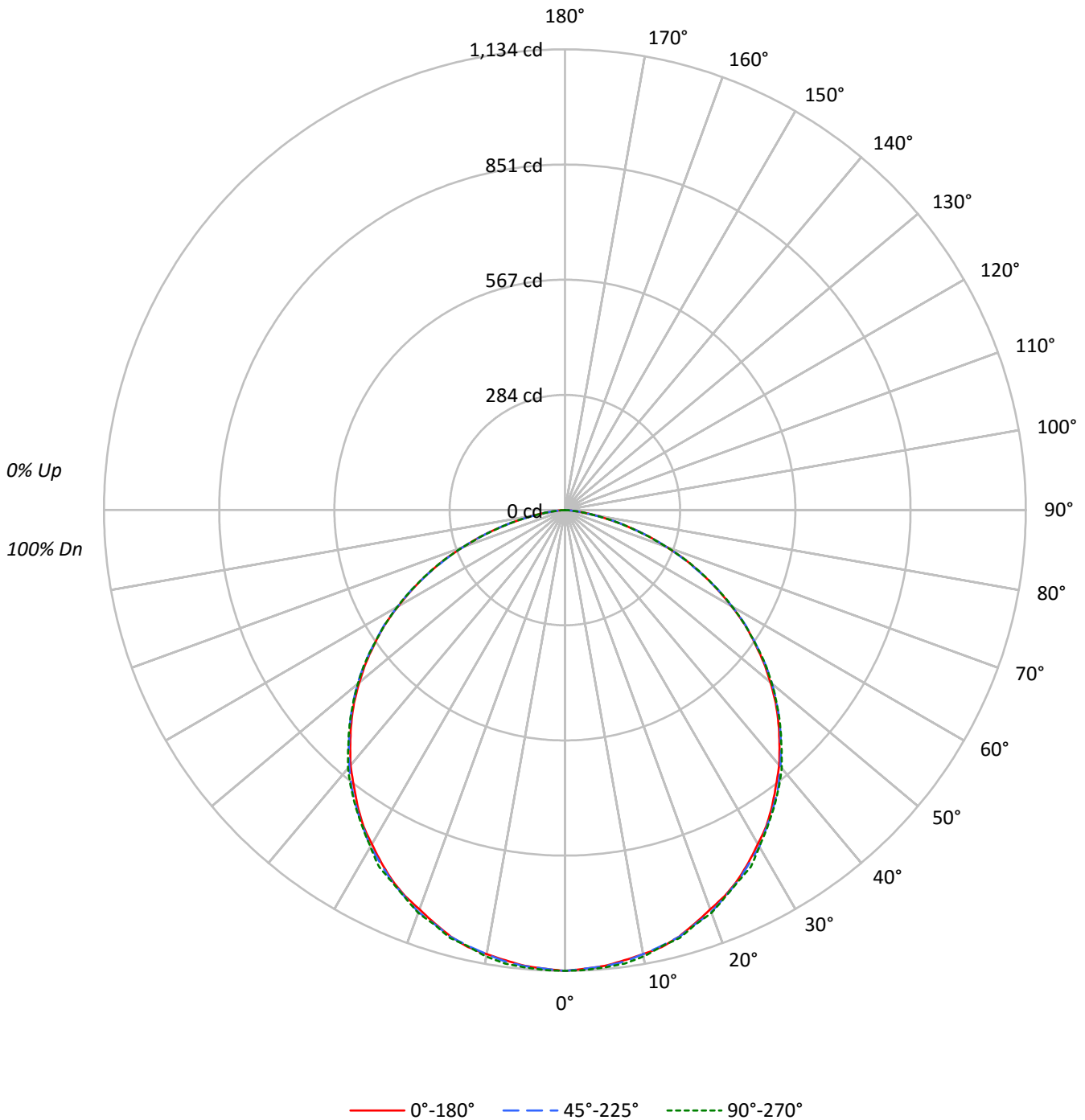
Lumens per Lamp: N/A
Luminaire Lumens: 3099.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P302489
CATALOG NUMBER: FSP-14-30HE-35-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P302489

CATALOG NUMBER: FSP-14-30HE-35-CA125

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°	3052	3052	3052
5°	3041	3044	3052
10°	3032	3032	3049
15°	3027	3029	3038
20°	2995	3015	3021
25°	2985	2991	2994
30°	2951	2973	2973
35°	2920	2937	2943
40°	2881	2899	2916
45°	2828	2847	2851
50°	2763	2789	2785
55°	2674	2689	2684
60°	2550	2555	2561
65°	2372	2366	2379
70°	2095	2103	2103
75°	1716	1726	1705
80°	1224	1192	1192
85°	562	562	531



TEST NUMBER: P302489

CATALOG NUMBER: FSP-14-30HE-35-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.5
10°-20°	306.7	9.9
20°-30°	464.2	15.0
30°-40°	559.0	18.0
40°-50°	576.6	18.6
50°-60°	511.9	16.5
60°-70°	368.1	11.9
70°-80°	177.1	5.7
80°-90°	28.2	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°	878.1	28.3
0°-40°	1437.1	46.4
0°-60°	2525.6	81.5
0°-90°	3099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1126	1129	1127	1126	1130	107
15°	1086	1089	1087	1085	1090	306
25°	1005	1008	1007	1008	1008	463
35°	889	891	894	896	896	556
45°	743	748	748	749	749	573
55°	570	576	573	578	572	510
65°	373	373	372	373	374	368
75°	165	167	166	164	164	177
85°	18	18	18	17	17	29
90°	0	0	0	0	0	



TEST NUMBER: P302489

CATALOG NUMBER: FSP-14-30HE-35-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1129.9	1134.0	1129.9	1128.9	1133.0
5°	1125.9	1128.9	1126.9	1125.9	1129.9
7.5°	1117.8	1122.8	1120.8	1119.8	1125.9
10°	1109.7	1113.7	1109.7	1112.7	1115.7
12.5°	1101.6	1104.6	1098.5	1102.6	1099.5
15°	1086.4	1089.4	1087.4	1085.4	1090.4
17.5°	1066.1	1071.2	1068.2	1071.2	1069.2
20°	1045.9	1049.9	1053.0	1050.9	1055.0
22.5°	1027.7	1029.7	1029.7	1031.7	1030.7
25°	1005.4	1008.4	1007.4	1008.4	1008.4
27.5°	978.0	980.1	981.1	983.1	990.2
30°	949.7	953.7	956.8	957.8	956.8
32.5°	922.4	924.4	924.4	928.4	926.4
35°	889.0	891.0	894.0	896.0	896.0
37.5°	853.5	856.6	861.6	863.6	863.6
40°	820.1	823.1	825.2	832.3	830.2
42.5°	781.6	787.7	786.7	787.7	788.7
45°	743.2	748.2	748.2	749.2	749.2
47.5°	703.7	707.7	707.7	707.7	707.7
50°	660.1	662.2	666.2	663.2	665.2
52.5°	616.6	620.6	620.6	618.6	620.6
55°	570.0	576.1	573.1	578.1	572.0
57.5°	525.5	526.5	526.5	525.5	524.5
60°	473.8	477.9	474.8	472.8	475.9
62.5°	423.2	425.2	425.2	424.2	425.2
65°	372.6	372.6	371.6	372.6	373.6
67.5°	322.0	322.0	318.9	316.9	323.0
70°	266.3	269.3	267.3	267.3	267.3
72.5°	216.7	214.6	215.7	213.6	214.6
75°	165.0	167.1	166.0	164.0	164.0
77.5°	118.5	121.5	119.5	118.5	119.5
80°	79.0	78.0	76.9	76.9	76.9
82.5°	45.6	43.5	43.5	42.5	42.5
85°	18.2	18.2	18.2	17.2	17.2
87.5°	4.0	4.0	4.0	3.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)