

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: P302550

Luminaire Tested: **FSP-22-32-35-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: P302550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-22-32-35-CP125
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (210) 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

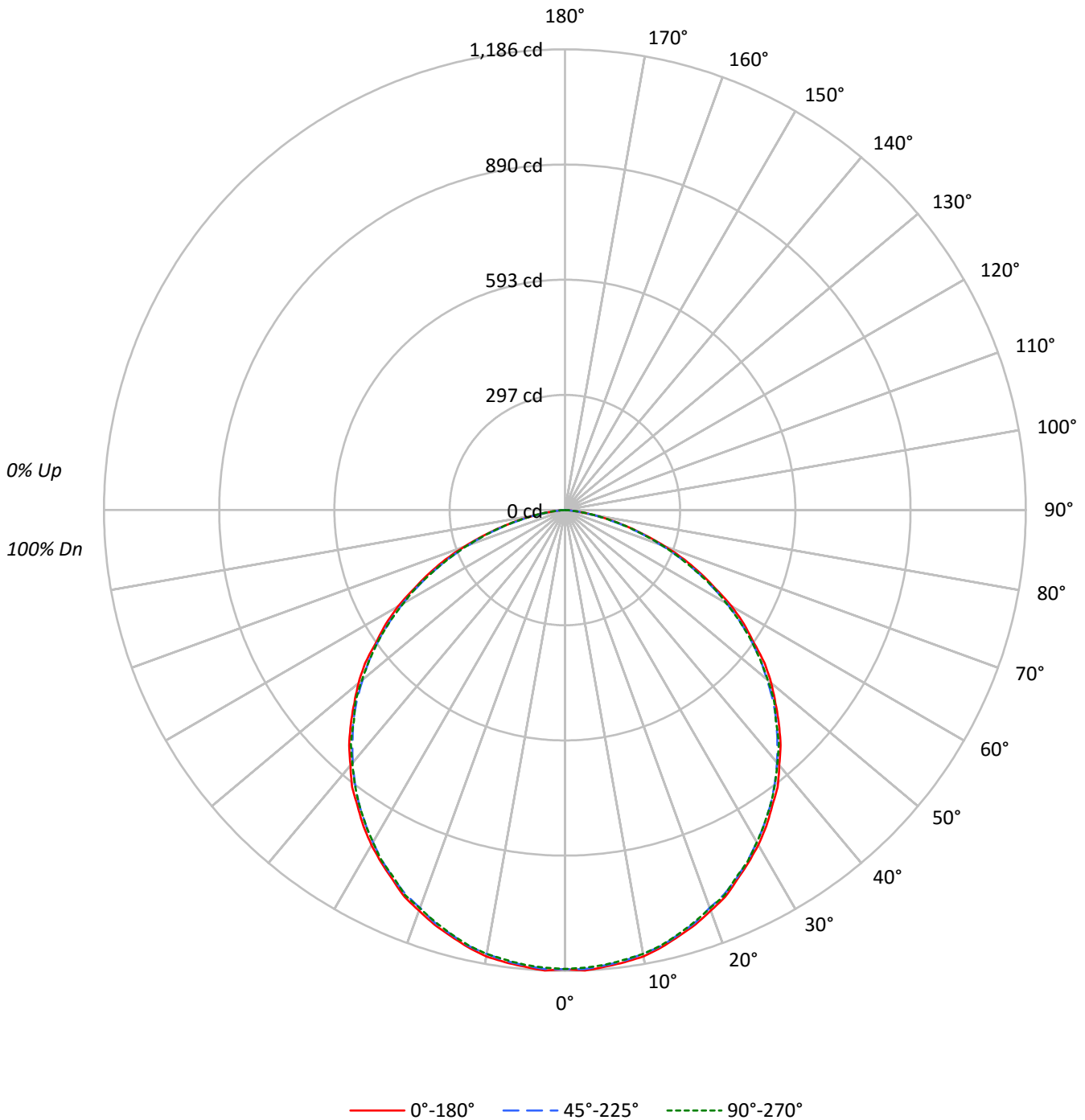
Lumens per Lamp: N/A
Luminaire Lumens: 3184.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	47	57	51	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3179	3179	3179
5°	3188	3178	3174
10°	3187	3170	3170
15°	3162	3151	3148
20°	3142	3120	3124
25°	3116	3104	3097
30°	3092	3069	3069
35°	3054	3034	3034
40°	3014	2983	2988
45°	2964	2930	2921
50°	2902	2844	2855
55°	2780	2745	2745
60°	2668	2594	2580
65°	2451	2379	2371
70°	2158	2079	2098
75°	1766	1687	1739
80°	1229	1170	1229
85°	584	543	584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	3.5
10°-20°	319.3	10.0
20°-30°	482.2	15.1
30°-40°	578.2	18.2
40°-50°	594.4	18.7
50°-60°	524.0	16.5
60°-70°	371.0	11.6
70°-80°	175.5	5.5
80°-90°	28.3	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°	913.2	28.7
0°-40°	1491.4	46.8
0°-60°	2609.8	81.9
0°-90°	3184.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1180	1179	1176	1175	1175	112
15°	1135	1130	1131	1130	1130	321
25°	1049	1046	1046	1044	1043	484
35°	930	926	924	922	924	583
45°	779	771	770	768	768	601
55°	593	588	585	588	585	532
65°	385	372	374	375	372	380
75°	170	160	162	162	167	182
85°	19	18	18	19	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.4	1181.4	1181.4	1181.4	1181.4
2.5°	1186.4	1180.1	1182.7	1180.1	1178.9
5°	1180.1	1178.9	1176.4	1175.1	1175.1
7.5°	1173.9	1170.1	1170.1	1167.6	1167.6
10°	1166.3	1160.0	1160.0	1160.0	1160.0
12.5°	1152.5	1146.2	1148.7	1144.9	1147.4
15°	1134.9	1129.8	1131.1	1129.8	1129.8
17.5°	1118.5	1113.5	1113.5	1112.2	1110.9
20°	1097.1	1097.1	1089.6	1093.3	1090.8
22.5°	1078.2	1077.0	1070.7	1068.2	1073.2
25°	1049.3	1045.5	1045.5	1044.3	1043.0
27.5°	1022.9	1021.6	1017.8	1019.1	1019.1
30°	995.2	990.2	987.6	985.1	987.6
32.5°	965.0	956.2	956.2	956.2	956.2
35°	929.8	926.0	923.5	922.2	923.5
37.5°	899.6	893.3	887.0	885.7	888.3
40°	858.1	853.0	849.3	850.5	850.5
42.5°	821.6	814.0	809.0	812.8	815.3
45°	778.8	771.2	770.0	767.5	767.5
47.5°	734.8	729.7	726.0	724.7	731.0
50°	693.2	683.2	679.4	679.4	681.9
52.5°	647.9	637.9	634.1	635.4	634.1
55°	592.6	587.6	585.0	587.6	585.0
57.5°	546.0	537.2	534.7	534.7	533.5
60°	495.7	483.1	481.9	480.6	479.4
62.5°	436.6	429.0	427.8	427.8	430.3
65°	385.0	372.4	373.7	374.9	372.4
67.5°	332.2	319.6	319.6	320.8	319.6
70°	274.3	263.0	264.2	266.7	266.7
72.5°	221.4	212.6	213.9	213.9	215.1
75°	169.9	159.8	162.3	162.3	167.3
77.5°	122.0	114.5	115.7	118.3	119.5
80°	79.3	74.2	75.5	76.7	79.3
82.5°	44.0	42.8	42.8	44.0	44.0
85°	18.9	17.6	17.6	18.9	18.9
87.5°	5.0	5.0	3.8	3.8	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)