

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: P302562

Luminaire Tested: **FSP-22-32-50-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: P302562
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-22-32-50-CP125
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (168) 5000 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

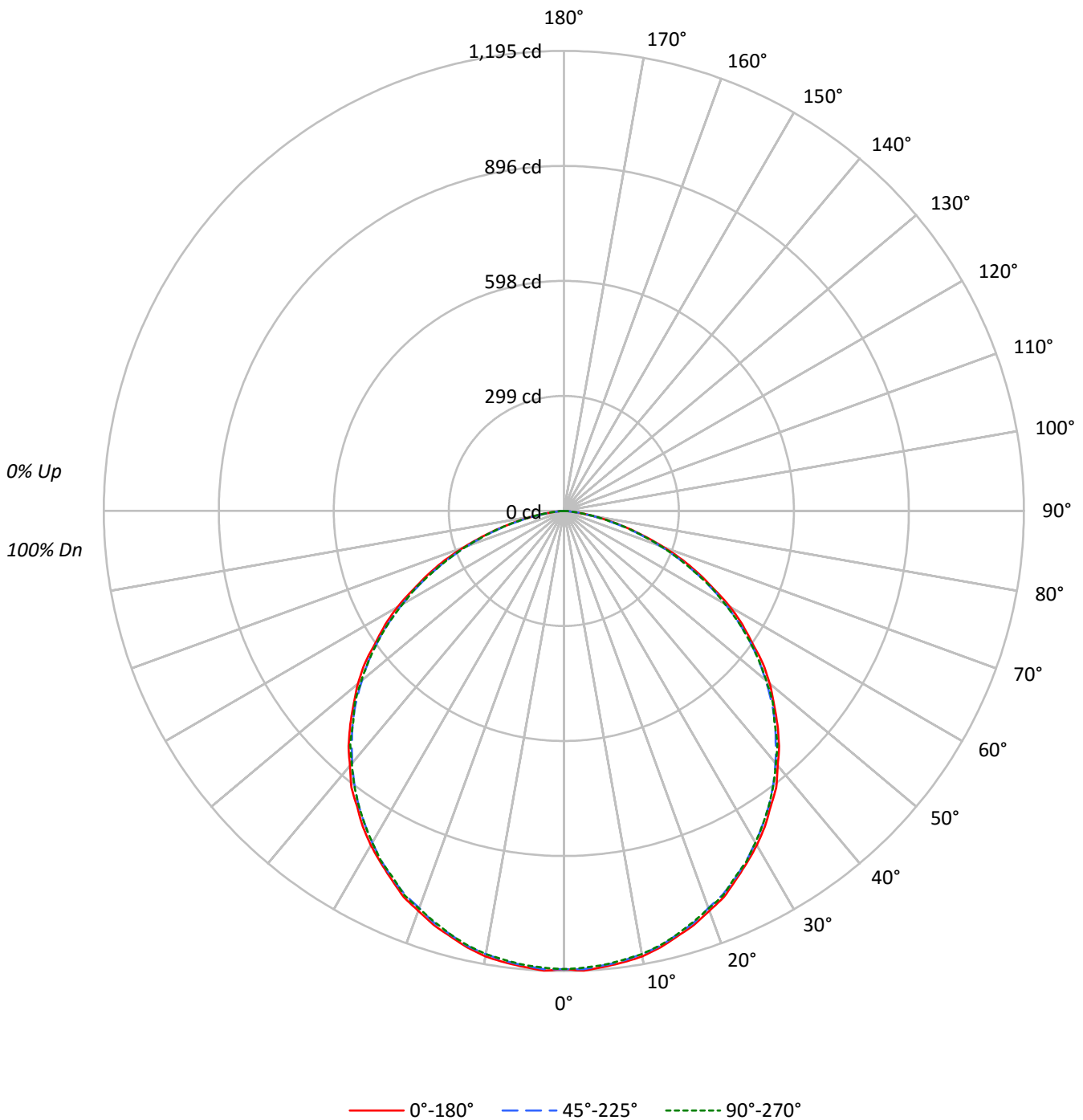
Lumens per Lamp: N/A
Luminaire Lumens: 3207.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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°	3202	3202	3202
5°	3211	3201	3197
10°	3210	3193	3193
15°	3185	3174	3171
20°	3165	3143	3147
25°	3138	3127	3119
30°	3115	3091	3091
35°	3077	3056	3056
40°	3036	3005	3009
45°	2986	2952	2942
50°	2923	2865	2876
55°	2800	2765	2765
60°	2687	2612	2599
65°	2469	2397	2388
70°	2174	2094	2114
75°	1779	1700	1753
80°	1237	1178	1237
85°	587	546	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.6	3.5
10°-20°	321.6	10.0
20°-30°	485.7	15.1
30°-40°	582.4	18.2
40°-50°	598.8	18.7
50°-60°	527.8	16.5
60°-70°	373.7	11.7
70°-80°	176.8	5.5
80°-90°	28.5	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°	919.9	28.7
0°-40°	1502.3	46.8
0°-60°	2628.8	81.9
0°-90°	3207.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1190	1190	1190	1190	1190	
5°	1189	1188	1185	1184	1184	113
15°	1143	1138	1139	1138	1138	323
25°	1057	1053	1053	1052	1051	488
35°	937	933	930	929	930	587
45°	784	777	776	773	773	605
55°	597	592	589	592	589	536
65°	388	375	376	378	375	383
75°	171	161	164	164	169	183
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°	1190.0	1190.0	1190.0	1190.0	1190.0
2.5°	1195.1	1188.8	1191.3	1188.8	1187.5
5°	1188.8	1187.5	1184.9	1183.7	1183.7
7.5°	1182.4	1178.6	1178.6	1176.1	1176.1
10°	1174.8	1168.5	1168.5	1168.5	1168.5
12.5°	1160.9	1154.5	1157.1	1153.3	1155.8
15°	1143.1	1138.1	1139.3	1138.1	1138.1
17.5°	1126.7	1121.6	1121.6	1120.3	1119.0
20°	1105.1	1105.1	1097.5	1101.3	1098.8
22.5°	1086.1	1084.8	1078.5	1076.0	1081.0
25°	1056.9	1053.1	1053.1	1051.9	1050.6
27.5°	1030.3	1029.1	1025.3	1026.5	1026.5
30°	1002.5	997.4	994.9	992.3	994.9
32.5°	972.0	963.2	963.2	963.2	963.2
35°	936.6	932.8	930.2	928.9	930.2
37.5°	906.1	899.8	893.5	892.2	894.7
40°	864.3	859.2	855.4	856.7	856.7
42.5°	827.6	820.0	814.9	818.7	821.2
45°	784.5	776.9	775.6	773.1	773.1
47.5°	740.1	735.0	731.2	730.0	736.3
50°	698.3	688.2	684.4	684.4	686.9
52.5°	652.7	642.5	638.7	640.0	638.7
55°	596.9	591.8	589.3	591.8	589.3
57.5°	550.0	541.1	538.6	538.6	537.3
60°	499.3	486.7	485.4	484.1	482.9
62.5°	439.8	432.2	430.9	430.9	433.4
65°	387.8	375.1	376.4	377.7	375.1
67.5°	334.6	321.9	321.9	323.2	321.9
70°	276.3	264.9	266.1	268.7	268.7
72.5°	223.0	214.2	215.4	215.4	216.7
75°	171.1	161.0	163.5	163.5	168.6
77.5°	122.9	115.3	116.6	119.1	120.4
80°	79.8	74.8	76.0	77.3	79.8
82.5°	44.4	43.1	43.1	44.4	44.4
85°	19.0	17.7	17.7	19.0	19.0
87.5°	5.1	5.1	3.8	3.8	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)