

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: P302526

Luminaire Tested: **FSP-22-21-35-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: P302526
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-22-21-35-CP125
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (126) 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

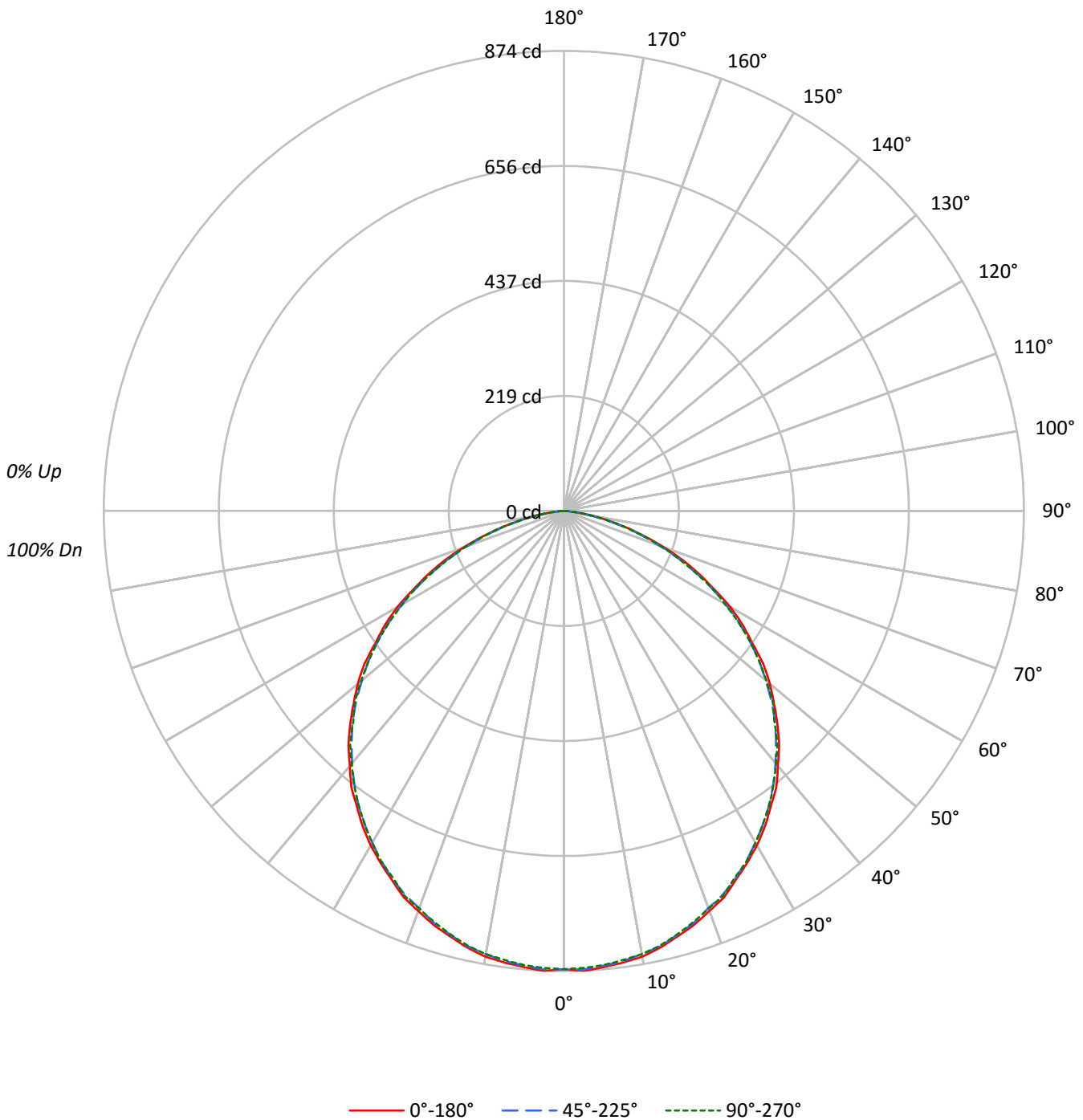
Lumens per Lamp: N/A
Luminaire Lumens: 2347.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): 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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CATALOG NUMBER: FSP-22-21-35-CP125

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°	2343	2343	2343
5°	2349	2342	2339
10°	2349	2336	2336
15°	2330	2322	2320
20°	2315	2300	2302
25°	2296	2288	2282
30°	2279	2262	2262
35°	2251	2236	2236
40°	2222	2199	2202
45°	2184	2160	2152
50°	2139	2096	2104
55°	2049	2023	2023
60°	1966	1911	1901
65°	1806	1754	1748
70°	1590	1532	1547
75°	1302	1243	1282
80°	905	862	905
85°	429	401	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.5
10°-20°	235.3	10.0
20°-30°	355.3	15.1
30°-40°	426.1	18.2
40°-50°	438.1	18.7
50°-60°	386.1	16.5
60°-70°	273.4	11.6
70°-80°	129.4	5.5
80°-90°	20.9	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°	673.0	28.7
0°-40°	1099.1	46.8
0°-60°	1923.3	81.9
0°-90°	2347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	871	871	871	871	871	
5°	870	869	867	866	866	83
15°	836	833	834	833	833	236
25°	773	770	770	770	769	357
35°	685	682	681	680	681	429
45°	574	568	568	566	566	443
55°	437	433	431	433	431	392
65°	284	274	275	276	274	280
75°	125	118	120	120	123	134
85°	14	13	13	14	14	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	870.6	870.6	870.6	870.6	870.6
2.5°	874.4	869.7	871.6	869.7	868.8
5°	869.7	868.8	866.9	866.0	866.0
7.5°	865.1	862.3	862.3	860.4	860.4
10°	859.5	854.9	854.9	854.9	854.9
12.5°	849.3	844.7	846.5	843.8	845.6
15°	836.3	832.6	833.6	832.6	832.6
17.5°	824.3	820.6	820.6	819.7	818.7
20°	808.5	808.5	803.0	805.7	803.9
22.5°	794.6	793.7	789.1	787.2	790.9
25°	773.3	770.5	770.5	769.6	768.7
27.5°	753.8	752.9	750.1	751.0	751.0
30°	733.4	729.7	727.9	726.0	727.9
32.5°	711.2	704.7	704.7	704.7	704.7
35°	685.2	682.4	680.6	679.6	680.6
37.5°	663.0	658.3	653.7	652.8	654.6
40°	632.4	628.6	625.9	626.8	626.8
42.5°	605.5	599.9	596.2	599.0	600.8
45°	573.9	568.4	567.5	565.6	565.6
47.5°	541.5	537.8	535.0	534.1	538.7
50°	510.9	503.5	500.7	500.7	502.5
52.5°	477.5	470.1	467.3	468.2	467.3
55°	436.7	433.0	431.2	433.0	431.2
57.5°	402.4	395.9	394.1	394.1	393.1
60°	365.3	356.0	355.1	354.2	353.3
62.5°	321.7	316.2	315.3	315.3	317.1
65°	283.7	274.5	275.4	276.3	274.5
67.5°	244.8	235.5	235.5	236.4	235.5
70°	202.1	193.8	194.7	196.6	196.6
72.5°	163.2	156.7	157.6	157.6	158.6
75°	125.2	117.8	119.6	119.6	123.3
77.5°	89.9	84.4	85.3	87.2	88.1
80°	58.4	54.7	55.6	56.6	58.4
82.5°	32.5	31.5	31.5	32.5	32.5
85°	13.9	13.0	13.0	13.9	13.9
87.5°	3.7	3.7	2.8	2.8	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)