

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: P302616

Luminaire Tested: **FSP-24-47-35-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: P302616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-24-47-35-CP125
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (252) 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

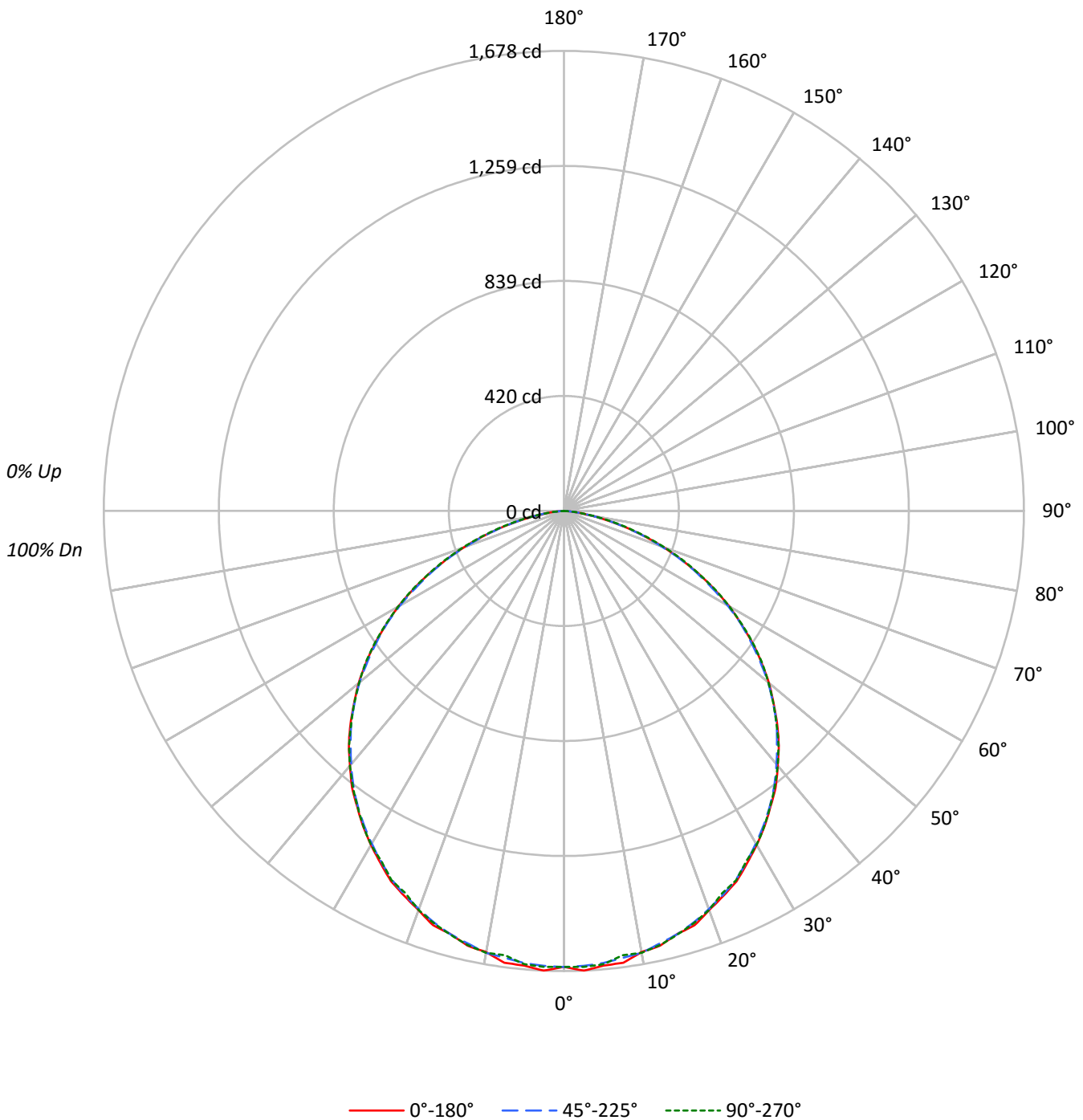
Lumens per Lamp: N/A
Luminaire Lumens: 4537.7 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.4
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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	33	60	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	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2238	2238	2238
5°	2248	2235	2241
10°	2232	2235	2235
15°	2224	2226	2228
20°	2219	2213	2217
25°	2212	2204	2206
30°	2185	2177	2185
35°	2159	2155	2157
40°	2131	2119	2131
45°	2095	2087	2087
50°	2045	2036	2039
55°	1971	1955	1978
60°	1876	1858	1876
65°	1729	1707	1734
70°	1525	1499	1546
75°	1236	1236	1278
80°	859	859	910
85°	417	417	459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	3.5
10°-20°	451.2	9.9
20°-30°	683.2	15.1
30°-40°	821.3	18.1
40°-50°	846.8	18.7
50°-60°	747.8	16.5
60°-70°	533.3	11.8
70°-80°	254.6	5.6
80°-90°	42.2	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°	1291.8	28.5
0°-40°	2113.1	46.6
0°-60°	3707.7	81.7
0°-90°	4537.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4537.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1664	1656	1655	1652	1659	158
15°	1597	1601	1598	1597	1600	452
25°	1490	1485	1485	1482	1486	685
35°	1314	1310	1312	1313	1313	823
45°	1101	1098	1097	1098	1097	848
55°	840	838	834	836	843	750
65°	543	546	536	535	544	537
75°	238	240	238	232	246	255
85°	27	27	27	28	30	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1663.1	1663.1	1663.1	1663.1	1663.1
2.5°	1677.9	1663.1	1660.4	1663.1	1664.4
5°	1664.4	1656.3	1655.0	1652.3	1659.0
7.5°	1661.7	1650.9	1644.2	1644.2	1634.7
10°	1633.4	1638.8	1636.1	1630.6	1636.1
12.5°	1623.9	1618.5	1615.8	1615.8	1621.2
15°	1596.9	1600.9	1598.2	1596.9	1599.6
17.5°	1584.7	1578.0	1573.9	1572.6	1576.6
20°	1549.6	1545.5	1545.5	1546.9	1548.2
22.5°	1519.9	1514.5	1515.8	1519.9	1509.1
25°	1490.1	1484.7	1484.7	1482.0	1486.1
27.5°	1448.3	1445.6	1442.9	1445.6	1440.2
30°	1406.4	1402.3	1401.0	1405.0	1406.4
32.5°	1363.2	1360.5	1357.7	1359.1	1361.8
35°	1314.5	1310.5	1311.8	1313.2	1313.2
37.5°	1269.9	1263.2	1261.8	1265.9	1264.5
40°	1213.2	1215.9	1206.4	1211.8	1213.2
42.5°	1160.5	1155.1	1151.0	1163.2	1159.2
45°	1101.1	1098.4	1097.0	1098.4	1097.0
47.5°	1037.6	1038.9	1034.9	1040.3	1036.2
50°	976.8	978.1	972.7	972.7	974.1
52.5°	909.2	913.3	902.5	901.1	911.9
55°	840.3	837.6	833.6	836.3	843.0
57.5°	767.4	768.7	766.0	767.4	770.1
60°	697.1	694.4	690.4	683.6	697.1
62.5°	620.1	622.8	610.6	610.6	624.2
65°	543.1	545.8	536.3	535.0	544.5
67.5°	464.7	464.7	460.7	453.9	471.5
70°	387.7	387.7	381.0	381.0	393.1
72.5°	310.7	309.4	308.0	304.0	317.5
75°	237.8	240.5	237.8	232.4	245.9
77.5°	170.2	172.9	168.9	170.2	177.0
80°	110.8	110.8	110.8	109.4	117.5
82.5°	64.8	63.5	63.5	64.8	67.5
85°	27.0	27.0	27.0	28.4	29.7
87.5°	6.8	6.8	8.1	6.8	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)