

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: P302574

Luminaire Tested: **FSP-22-42-40-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: P302574
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-22-42-40-CP125
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (210) 4000 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

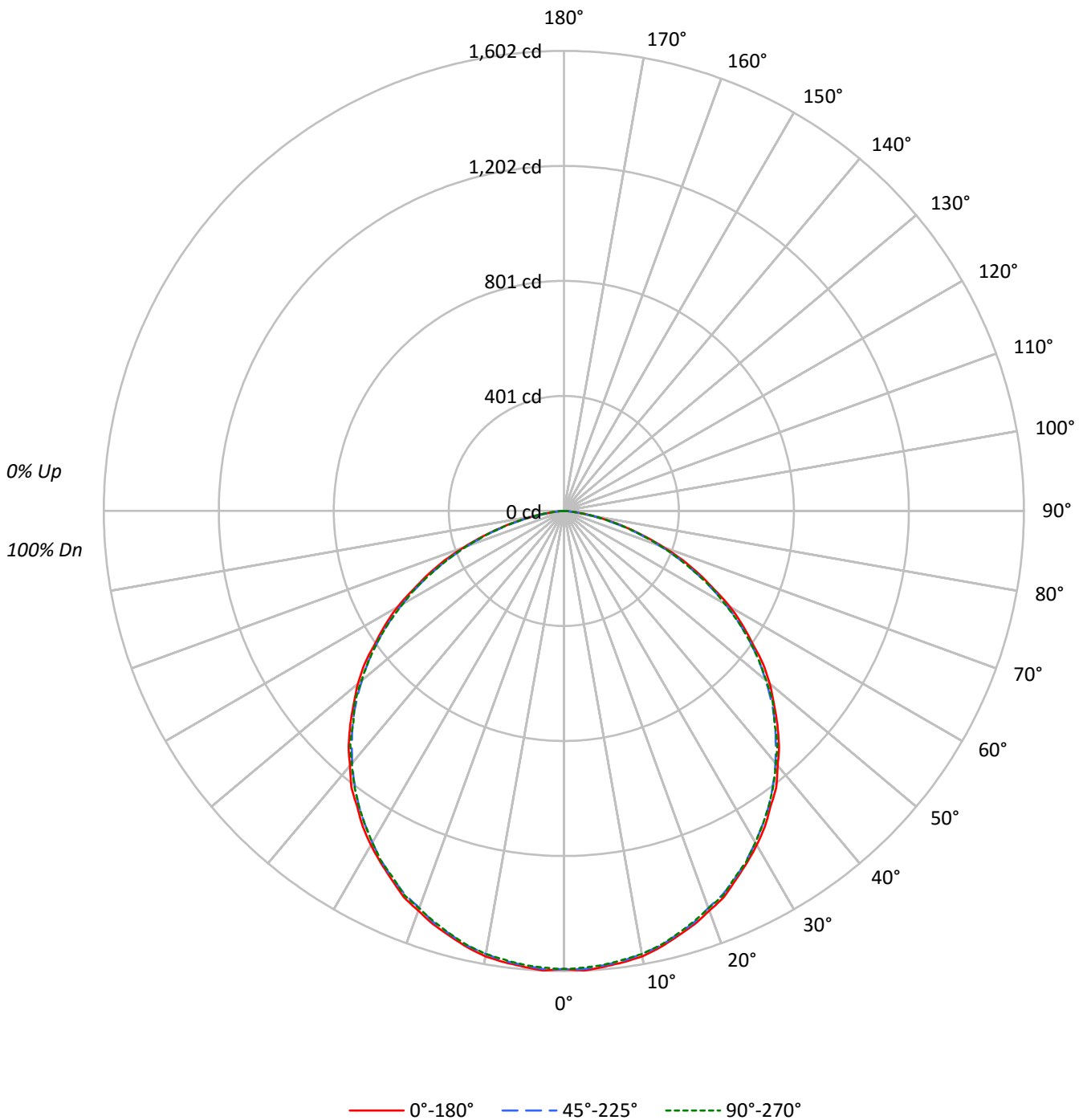
Lumens per Lamp: N/A
Luminaire Lumens: 4299.9 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38.3
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°	4292	4292	4292
5°	4304	4290	4286
10°	4303	4280	4280
15°	4269	4254	4250
20°	4242	4213	4218
25°	4206	4191	4181
30°	4175	4144	4144
35°	4124	4096	4096
40°	4070	4028	4034
45°	4002	3956	3943
50°	3918	3840	3854
55°	3754	3706	3706
60°	3602	3502	3483
65°	3310	3212	3202
70°	2913	2806	2833
75°	2384	2278	2349
80°	1658	1579	1658
85°	787	735	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	3.5
10°-20°	431.1	10.0
20°-30°	651.0	15.1
30°-40°	780.6	18.2
40°-50°	802.6	18.7
50°-60°	707.5	16.5
60°-70°	500.9	11.6
70°-80°	237.0	5.5
80°-90°	38.3	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°	1233.0	28.7
0°-40°	2013.7	46.8
0°-60°	3523.7	81.9
0°-90°	4299.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4299.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1593	1592	1588	1587	1587	152
15°	1532	1525	1527	1525	1525	433
25°	1417	1412	1412	1410	1408	654
35°	1255	1250	1247	1245	1247	787
45°	1052	1041	1040	1036	1036	811
55°	800	793	790	793	790	719
65°	520	503	504	506	503	514
75°	229	216	219	219	226	245
85°	26	24	24	26	26	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1595.1	1595.1	1595.1	1595.1	1595.1
2.5°	1601.9	1593.4	1596.8	1593.4	1591.7
5°	1593.4	1591.7	1588.3	1586.6	1586.6
7.5°	1584.9	1579.8	1579.8	1576.4	1576.4
10°	1574.7	1566.2	1566.2	1566.2	1566.2
12.5°	1556.0	1547.5	1550.9	1545.8	1549.2
15°	1532.2	1525.4	1527.1	1525.4	1525.4
17.5°	1510.2	1503.4	1503.4	1501.7	1500.0
20°	1481.3	1481.3	1471.1	1476.2	1472.8
22.5°	1455.8	1454.1	1445.6	1442.2	1449.0
25°	1416.7	1411.6	1411.6	1409.9	1408.2
27.5°	1381.1	1379.4	1374.3	1376.0	1376.0
30°	1343.7	1336.9	1333.5	1330.1	1333.5
32.5°	1302.9	1291.0	1291.0	1291.0	1291.0
35°	1255.3	1250.3	1246.9	1245.2	1246.9
37.5°	1214.6	1206.1	1197.6	1195.9	1199.3
40°	1158.5	1151.7	1146.6	1148.3	1148.3
42.5°	1109.3	1099.1	1092.3	1097.4	1100.8
45°	1051.5	1041.3	1039.6	1036.2	1036.2
47.5°	992.0	985.3	980.2	978.5	987.0
50°	936.0	922.4	917.3	917.3	920.7
52.5°	874.8	861.2	856.2	857.8	856.2
55°	800.1	793.3	789.9	793.3	789.9
57.5°	737.2	725.3	722.0	722.0	720.3
60°	669.3	652.3	650.6	648.9	647.2
62.5°	589.5	579.3	577.6	577.6	581.0
65°	519.8	502.8	504.5	506.2	502.8
67.5°	448.5	431.5	431.5	433.2	431.5
70°	370.3	355.0	356.7	360.1	360.1
72.5°	299.0	287.1	288.8	288.8	290.5
75°	229.3	215.7	219.1	219.1	225.9
77.5°	164.8	154.6	156.3	159.7	161.4
80°	107.0	100.2	101.9	103.6	107.0
82.5°	59.5	57.8	57.8	59.5	59.5
85°	25.5	23.8	23.8	25.5	25.5
87.5°	6.8	6.8	5.1	5.1	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)