

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: P302583

Luminaire Tested: **FSP-22-42-50-CP375**

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: P302583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-22-42-50-CP375
Description: 2x2 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (210) 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

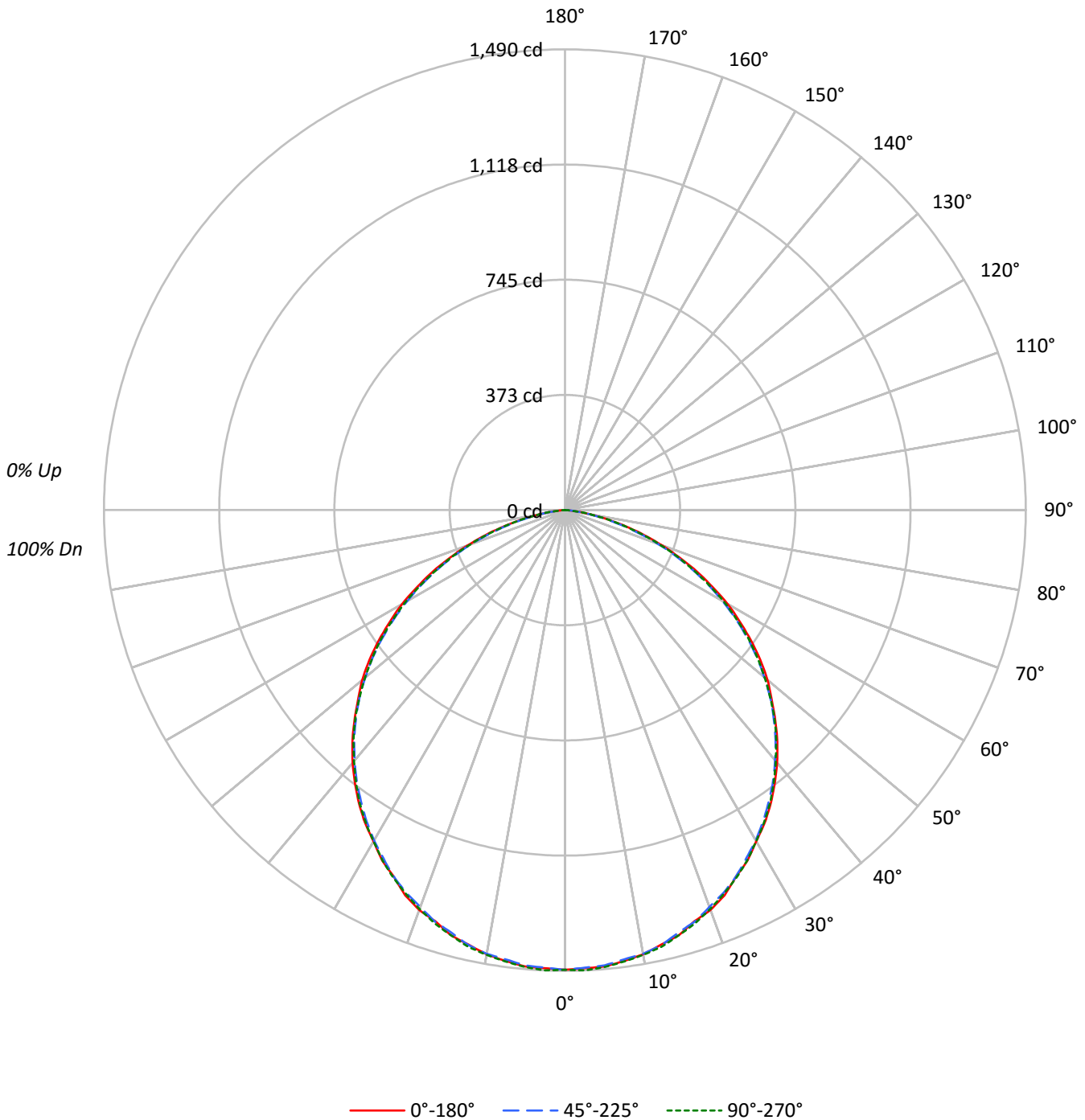
Lumens per Lamp: N/A
Luminaire Lumens: 3946.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	99	96	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4000	4000	4000
5°	4001	3992	4006
10°	3985	3981	3990
15°	3966	3942	3966
20°	3942	3912	3932
25°	3885	3885	3895
30°	3843	3832	3843
35°	3810	3776	3799
40°	3749	3712	3725
45°	3663	3636	3650
50°	3583	3525	3532
55°	3442	3376	3401
60°	3272	3168	3205
65°	3003	2891	2914
70°	2639	2529	2570
75°	2125	1997	2070
80°	1435	1353	1435
85°	648	593	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	3.6
10°-20°	400.7	10.2
20°-30°	603.1	15.3
30°-40°	721.3	18.3
40°-50°	737.8	18.7
50°-60°	645.1	16.3
60°-70°	453.8	11.5
70°-80°	211.6	5.4
80°-90°	32.9	0.8
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°	1144.2	29.0
0°-40°	1865.4	47.3
0°-60°	3248.4	82.3
0°-90°	3946.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3946.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1481	1476	1478	1474	1483	141
15°	1424	1422	1415	1418	1424	401
25°	1308	1310	1308	1306	1312	605
35°	1160	1158	1149	1149	1156	725
45°	962	959	956	956	959	743
55°	734	727	720	716	725	656
65°	472	463	454	452	458	465
75°	204	199	192	194	199	219
85°	21	19	19	21	21	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1486.5	1486.5	1486.5	1486.5	1486.5
2.5°	1483.0	1486.5	1481.2	1479.5	1490.0
5°	1481.2	1476.0	1477.7	1474.2	1483.0
7.5°	1470.7	1470.7	1465.5	1467.2	1472.5
10°	1458.5	1455.0	1456.8	1456.8	1460.3
12.5°	1439.3	1442.8	1441.0	1441.0	1446.3
15°	1423.6	1421.8	1414.8	1418.3	1423.6
17.5°	1393.9	1399.1	1395.6	1395.6	1400.9
20°	1376.4	1372.9	1365.9	1369.4	1372.9
22.5°	1348.5	1345.0	1339.7	1341.5	1343.2
25°	1308.3	1310.0	1308.3	1306.5	1311.8
27.5°	1278.6	1273.4	1269.9	1269.9	1276.9
30°	1236.7	1240.2	1233.2	1233.2	1236.7
32.5°	1201.7	1200.0	1193.0	1194.8	1198.3
35°	1159.8	1158.1	1149.3	1149.3	1156.3
37.5°	1114.4	1110.9	1105.7	1102.2	1109.2
40°	1067.2	1067.2	1056.8	1053.3	1060.3
42.5°	1016.6	1009.6	1007.9	1009.6	1011.4
45°	962.4	959.0	955.5	955.5	959.0
47.5°	906.5	904.8	901.3	897.8	901.3
50°	855.9	845.4	841.9	841.9	843.7
52.5°	796.5	786.0	782.5	779.0	784.3
55°	733.6	726.6	719.6	716.2	724.9
57.5°	670.7	662.0	655.0	656.8	658.5
60°	607.9	595.6	588.6	586.9	595.6
62.5°	538.0	531.0	522.3	522.3	525.8
65°	471.6	462.9	454.1	452.4	457.6
67.5°	400.0	396.5	387.8	384.3	394.8
70°	335.4	324.9	321.4	317.9	326.6
72.5°	269.0	258.5	255.0	256.8	263.8
75°	204.4	199.1	192.1	193.9	199.1
77.5°	145.0	141.5	136.2	139.7	145.0
80°	92.6	90.8	87.3	89.1	92.6
82.5°	54.1	52.4	48.9	50.7	50.7
85°	21.0	19.2	19.2	21.0	21.0
87.5°	5.2	5.2	5.2	3.5	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)