

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: P302505

Luminaire Tested: **FSP-14-42-35-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: P302505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-14-42-35-CP375
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (238) 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

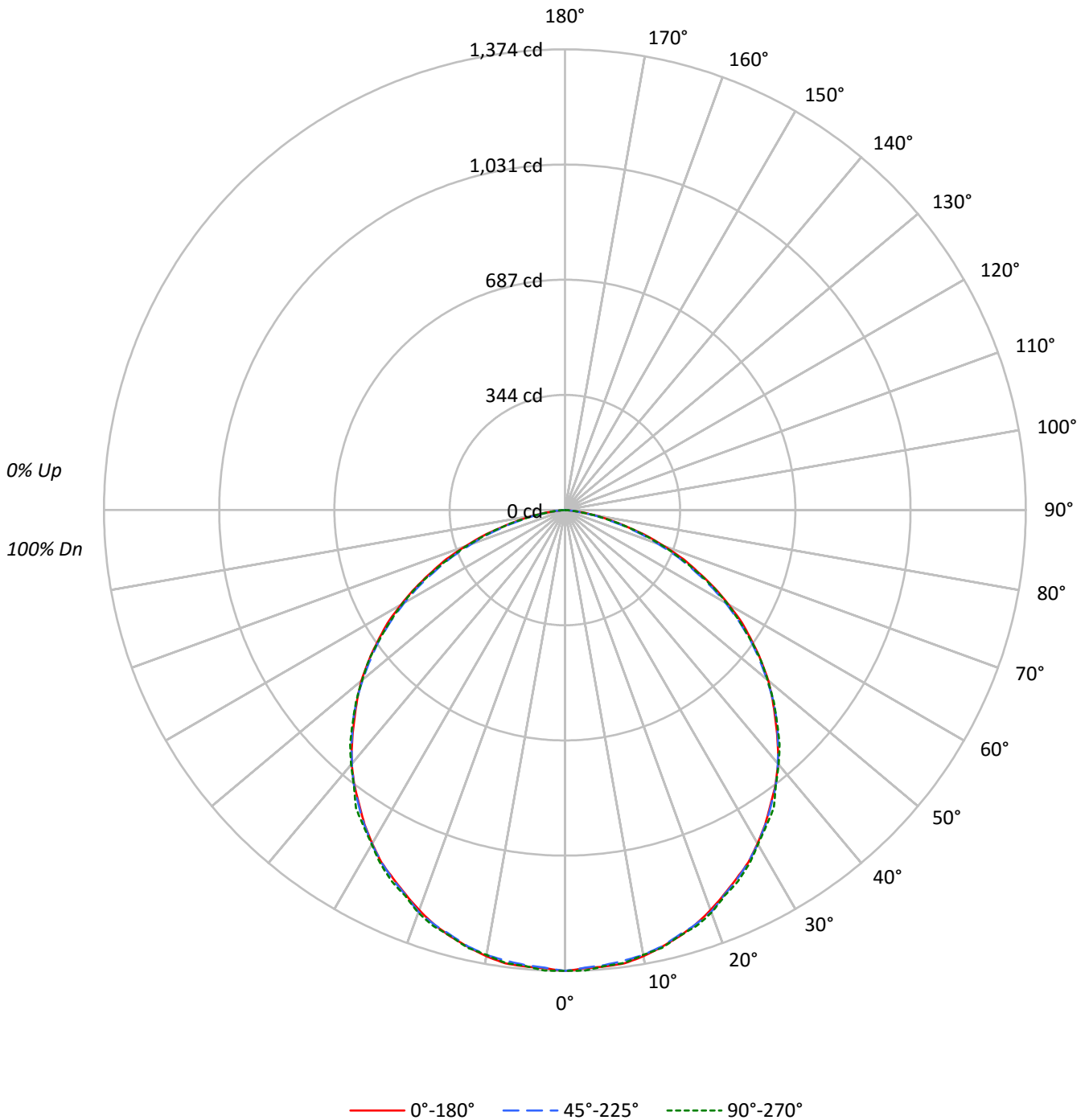
Lumens per Lamp: N/A
Luminaire Lumens: 3676.4 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	76	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	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3698	3698	3698
5°	3690	3679	3686
10°	3691	3680	3680
15°	3668	3656	3664
20°	3636	3652	3659
25°	3598	3606	3627
30°	3569	3573	3577
35°	3515	3524	3565
40°	3473	3469	3483
45°	3380	3401	3401
50°	3315	3292	3304
55°	3192	3166	3172
60°	3031	2972	3009
65°	2788	2692	2753
70°	2471	2330	2437
75°	1990	1876	1975
80°	1409	1280	1365
85°	596	553	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	3.5
10°-20°	371.8	10.1
20°-30°	560.7	15.3
30°-40°	671.4	18.3
40°-50°	687.6	18.7
50°-60°	602.1	16.4
60°-70°	424.0	11.5
70°-80°	198.5	5.4
80°-90°	30.4	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°	1062.4	28.9
0°-40°	1733.9	47.2
0°-60°	3023.6	82.2
0°-90°	3676.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1366	1367	1362	1372	1365	130
15°	1316	1318	1312	1322	1315	371
25°	1212	1217	1215	1222	1222	559
35°	1070	1070	1073	1077	1085	670
45°	888	887	894	894	894	687
55°	680	675	675	675	676	608
65°	438	430	423	421	432	436
75°	191	187	180	180	190	207
85°	19	19	18	18	21	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.3	1374.3	1374.3	1374.3	1374.3
2.5°	1367.4	1374.3	1366.1	1374.3	1374.3
5°	1366.1	1367.4	1361.9	1371.6	1364.7
7.5°	1363.3	1361.9	1355.0	1363.3	1361.9
10°	1350.9	1350.9	1346.8	1352.3	1346.8
12.5°	1334.4	1335.8	1333.0	1338.5	1337.1
15°	1316.5	1317.9	1312.4	1322.0	1315.1
17.5°	1295.8	1295.8	1295.8	1298.6	1301.3
20°	1269.7	1271.0	1275.2	1277.9	1277.9
22.5°	1240.7	1240.7	1242.1	1246.3	1244.9
25°	1211.8	1217.3	1214.6	1221.5	1221.5
27.5°	1184.3	1185.7	1184.3	1189.8	1189.8
30°	1148.5	1144.3	1149.9	1154.0	1151.2
32.5°	1111.3	1107.2	1112.7	1118.2	1116.8
35°	1070.0	1070.0	1072.7	1076.9	1085.1
37.5°	1031.4	1028.7	1032.8	1035.6	1032.8
40°	988.7	984.6	987.4	986.0	991.5
42.5°	939.2	939.2	940.5	941.9	947.4
45°	888.2	886.8	893.7	893.7	893.7
47.5°	840.0	841.4	842.8	844.1	844.1
50°	791.8	786.3	786.3	786.3	789.1
52.5°	736.7	731.2	729.9	728.5	736.7
55°	680.3	674.8	674.8	674.8	676.1
57.5°	626.6	615.6	614.2	610.0	616.9
60°	563.2	555.0	552.2	548.1	559.1
62.5°	502.6	494.4	488.9	486.1	498.5
65°	437.9	429.6	422.8	421.4	432.4
67.5°	382.8	367.7	362.2	360.8	369.1
70°	314.0	304.3	296.1	298.8	309.8
72.5°	256.1	245.1	238.2	238.2	249.3
75°	191.4	187.3	180.4	180.4	190.0
77.5°	137.7	133.6	126.7	129.4	135.0
80°	90.9	85.4	82.6	82.6	88.1
82.5°	51.0	46.8	45.4	45.4	48.2
85°	19.3	19.3	17.9	17.9	20.7
87.5°	4.1	4.1	4.1	2.8	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)