

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: P302493

Luminaire Tested: **FSP-14-30HE-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: P302493
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-14-30HE-35-CP375
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .375"
Light Source: (224) 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

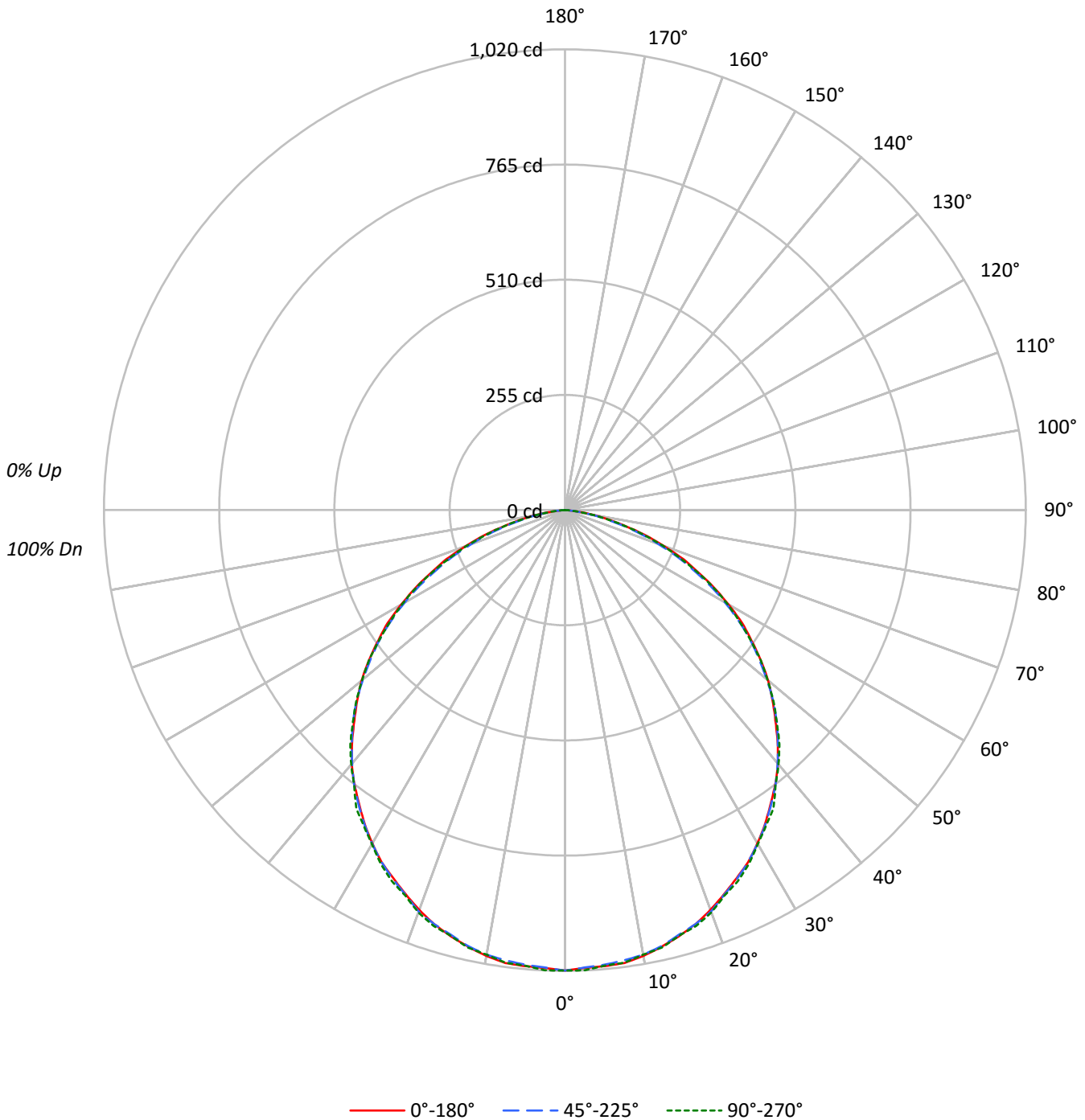
Lumens per Lamp: N/A
Luminaire Lumens: 2727.2 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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°	2743	2743	2743
5°	2737	2729	2734
10°	2738	2730	2730
15°	2721	2712	2718
20°	2697	2709	2715
25°	2669	2675	2690
30°	2647	2651	2654
35°	2607	2614	2644
40°	2577	2573	2584
45°	2508	2523	2523
50°	2459	2442	2450
55°	2367	2349	2353
60°	2249	2204	2232
65°	2068	1997	2043
70°	1832	1728	1808
75°	1476	1391	1466
80°	1044	950	1013
85°	442	411	472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.5
10°-20°	275.8	10.1
20°-30°	415.9	15.3
30°-40°	498.1	18.3
40°-50°	510.1	18.7
50°-60°	446.6	16.4
60°-70°	314.5	11.5
70°-80°	147.2	5.4
80°-90°	22.6	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°	788.1	28.9
0°-40°	1286.2	47.2
0°-60°	2242.9	82.2
0°-90°	2727.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2727.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1020	1020	1020	1020	1020	
5°	1013	1014	1010	1018	1012	96
15°	977	978	974	981	976	276
25°	899	903	901	906	906	415
35°	794	794	796	799	805	497
45°	659	658	663	663	663	509
55°	505	501	501	501	502	451
65°	325	319	314	313	321	323
75°	142	139	134	134	141	154
85°	14	14	13	13	15	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.5	1019.5	1019.5	1019.5	1019.5
2.5°	1014.4	1019.5	1013.4	1019.5	1019.5
5°	1013.4	1014.4	1010.3	1017.5	1012.3
7.5°	1011.3	1010.3	1005.2	1011.3	1010.3
10°	1002.1	1002.1	999.1	1003.1	999.1
12.5°	989.9	990.9	988.8	992.9	991.9
15°	976.6	977.6	973.5	980.7	975.6
17.5°	961.3	961.3	961.3	963.3	965.4
20°	941.9	942.9	945.9	948.0	948.0
22.5°	920.4	920.4	921.4	924.5	923.5
25°	899.0	903.0	901.0	906.1	906.1
27.5°	878.5	879.5	878.5	882.6	882.6
30°	852.0	848.9	853.0	856.0	854.0
32.5°	824.4	821.3	825.4	829.5	828.5
35°	793.7	793.7	795.8	798.8	805.0
37.5°	765.1	763.1	766.2	768.2	766.2
40°	733.5	730.4	732.4	731.4	735.5
42.5°	696.7	696.7	697.7	698.7	702.8
45°	658.9	657.9	663.0	663.0	663.0
47.5°	623.1	624.2	625.2	626.2	626.2
50°	587.4	583.3	583.3	583.3	585.3
52.5°	546.5	542.4	541.4	540.4	546.5
55°	504.6	500.6	500.6	500.6	501.6
57.5°	464.8	456.6	455.6	452.5	457.6
60°	417.8	411.7	409.6	406.6	414.7
62.5°	372.9	366.7	362.6	360.6	369.8
65°	324.8	318.7	313.6	312.6	320.8
67.5°	284.0	272.8	268.7	267.6	273.8
70°	232.9	225.8	219.6	221.7	229.8
72.5°	190.0	181.8	176.7	176.7	184.9
75°	142.0	138.9	133.8	133.8	141.0
77.5°	102.2	99.1	94.0	96.0	100.1
80°	67.4	63.3	61.3	61.3	65.4
82.5°	37.8	34.7	33.7	33.7	35.8
85°	14.3	14.3	13.3	13.3	15.3
87.5°	3.1	3.1	3.1	2.0	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)