

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: P302492

Luminaire Tested: **FSP-14-30HE-35-CP250**

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: P302492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-6)
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-CP250
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .25"
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

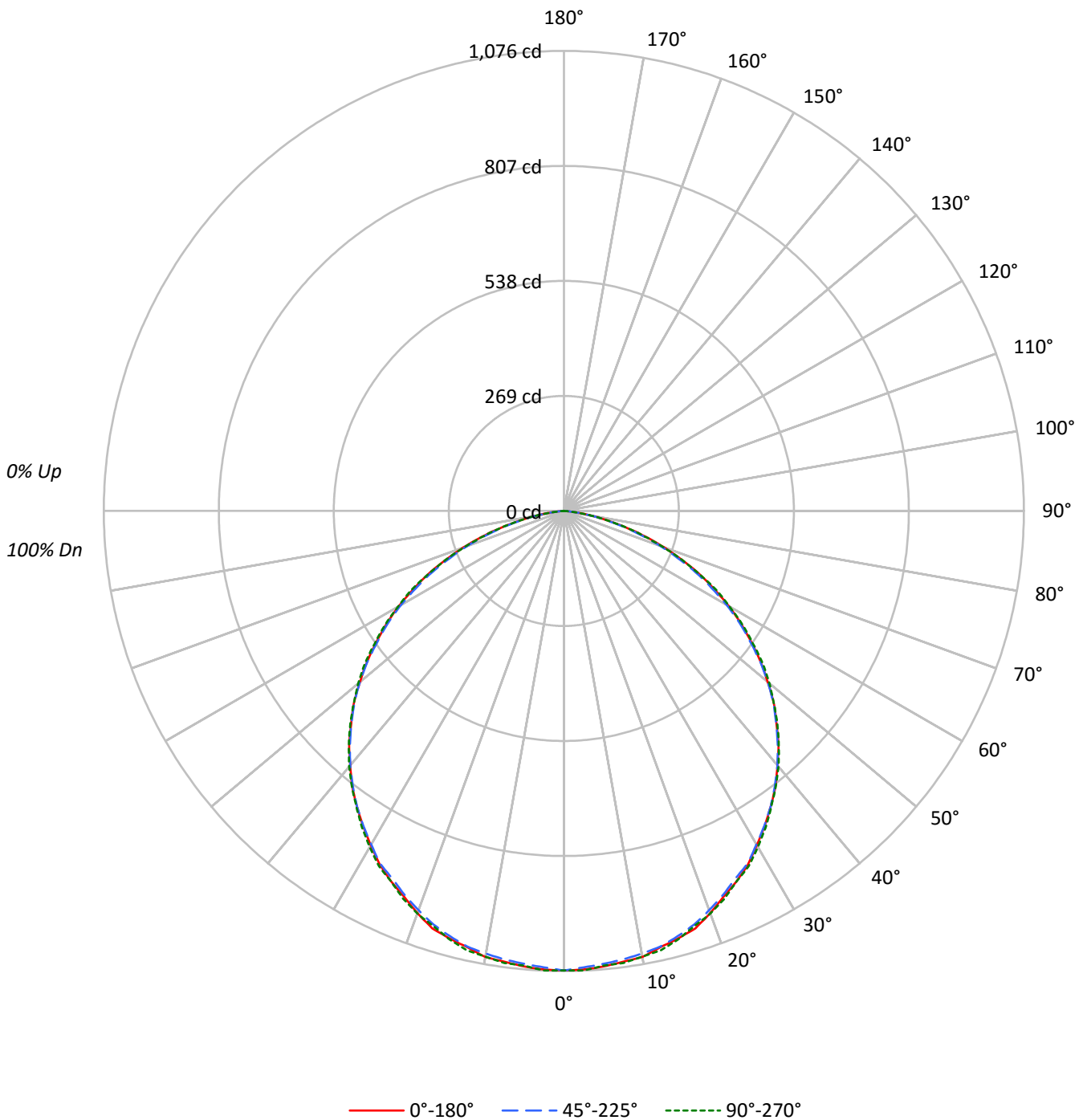
Lumens per Lamp: N/A
Luminaire Lumens: 2908.3 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	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	66	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	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	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°	2891	2891	2891
5°	2889	2872	2883
10°	2894	2872	2891
15°	2882	2868	2888
20°	2866	2846	2869
25°	2838	2817	2838
30°	2805	2799	2821
35°	2771	2771	2778
40°	2729	2729	2744
45°	2677	2673	2688
50°	2606	2606	2628
55°	2513	2494	2533
60°	2399	2366	2410
65°	2233	2167	2226
70°	1963	1899	1947
75°	1583	1520	1583
80°	1093	1062	1093
85°	472	472	472



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	3.5
10°-20°	291.2	10.0
20°-30°	439.6	15.1
30°-40°	527.8	18.1
40°-50°	542.8	18.7
50°-60°	478.9	16.5
60°-70°	340.8	11.7
70°-80°	160.9	5.5
80°-90°	24.7	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°	832.3	28.6
0°-40°	1360.1	46.8
0°-60°	2381.8	81.9
0°-90°	2908.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2908.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1069	1068	1063	1071	1067	102
15°	1035	1030	1030	1034	1037	292
25°	956	950	949	955	956	440
35°	843	839	843	848	846	528
45°	703	701	702	708	706	543
55°	536	537	532	538	540	479
65°	351	346	340	346	350	345
75°	152	151	146	149	152	164
85°	15	16	15	15	15	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.5	1074.5	1074.5	1074.5	1074.5
2.5°	1073.5	1071.4	1068.4	1072.4	1075.5
5°	1069.4	1068.4	1063.2	1071.4	1067.3
7.5°	1063.2	1065.3	1058.1	1063.2	1066.3
10°	1059.2	1053.0	1051.0	1055.1	1058.1
12.5°	1044.8	1044.8	1043.8	1044.8	1052.0
15°	1034.6	1030.5	1029.5	1033.6	1036.7
17.5°	1023.4	1015.2	1014.2	1017.2	1017.2
20°	1000.9	993.7	993.7	998.8	1001.9
22.5°	976.3	975.3	972.3	981.5	981.5
25°	955.9	949.8	948.7	954.9	955.9
27.5°	932.4	927.3	930.3	930.3	936.5
30°	902.7	900.7	900.7	905.8	907.8
32.5°	874.1	872.1	873.1	876.2	878.2
35°	843.4	839.4	843.4	847.5	845.5
37.5°	812.8	810.7	810.7	813.8	813.8
40°	777.0	773.9	777.0	782.1	781.1
42.5°	743.3	739.2	740.2	745.3	744.3
45°	703.4	701.3	702.4	707.5	706.4
47.5°	666.6	663.5	664.5	664.5	666.6
50°	622.6	622.6	622.6	625.7	627.7
52.5°	580.7	579.7	578.7	583.8	586.8
55°	535.7	536.7	531.6	537.8	539.8
57.5°	491.8	491.8	487.7	490.7	495.8
60°	445.7	442.7	439.6	443.7	447.8
62.5°	396.7	394.6	389.5	392.6	403.8
65°	350.7	345.6	340.4	345.6	349.6
67.5°	299.5	295.5	289.3	294.4	299.5
70°	249.5	246.4	241.3	244.3	247.4
72.5°	201.4	196.3	192.2	196.3	198.3
75°	152.3	151.3	146.2	149.3	152.3
77.5°	109.4	107.3	104.3	109.4	109.4
80°	70.5	70.5	68.5	69.5	70.5
82.5°	39.9	37.8	36.8	38.8	37.8
85°	15.3	16.4	15.3	15.3	15.3
87.5°	3.1	2.0	3.1	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)