

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: P302497

Luminaire Tested: **FSP-14-30HE-40-CP187**

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: P302497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-5)
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-40-CP187
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .187"
Light Source: (266) 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

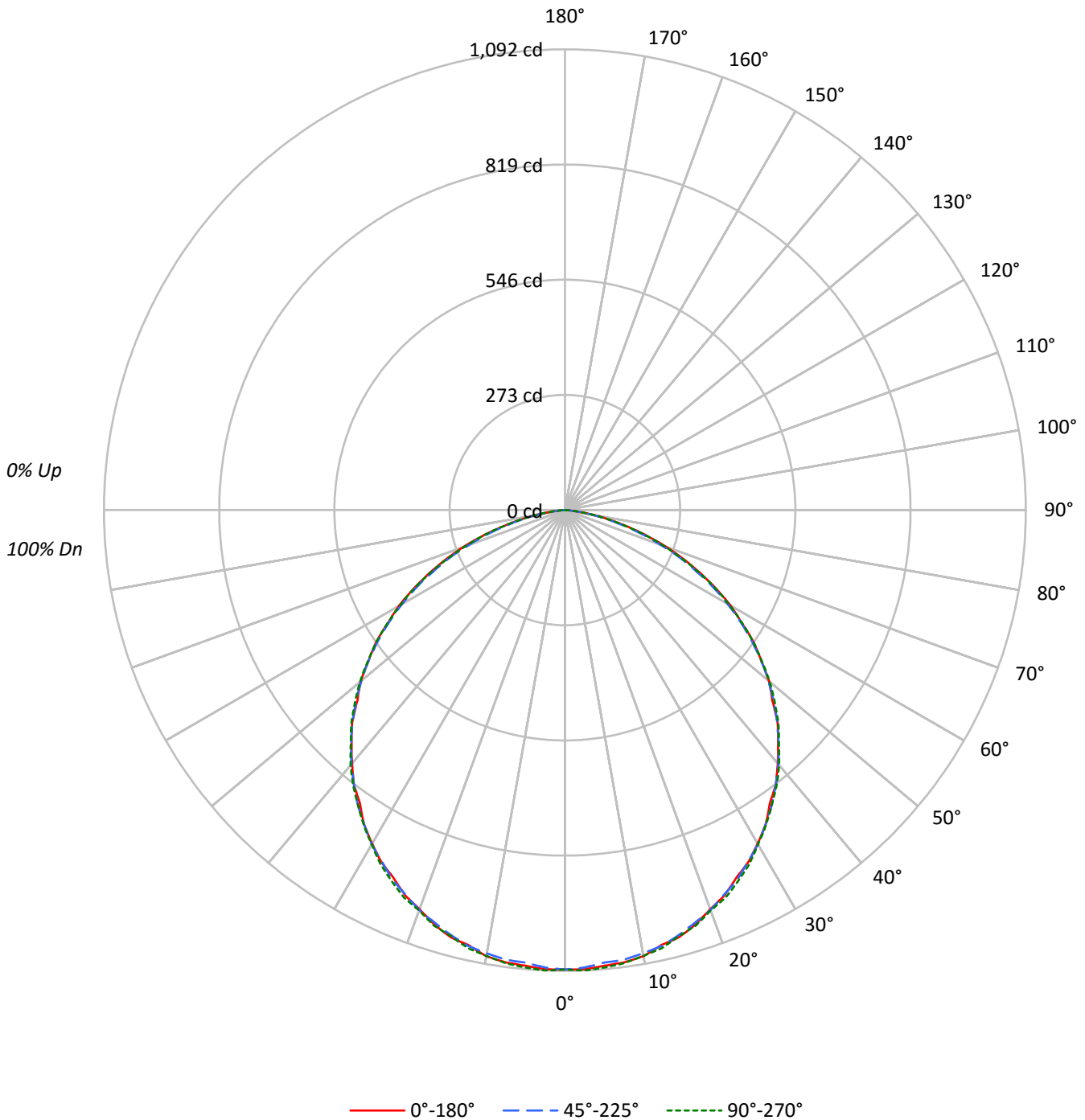
Lumens per Lamp: N/A
Luminaire Lumens: 2947.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	59	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	34	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°	2930	2930	2930
5°	2928	2908	2939
10°	2934	2914	2931
15°	2919	2905	2911
20°	2883	2889	2892
25°	2855	2870	2882
30°	2838	2844	2844
35°	2783	2807	2807
40°	2756	2764	2774
45°	2712	2708	2724
50°	2643	2635	2652
55°	2562	2533	2557
60°	2441	2397	2424
65°	2259	2187	2239
70°	2015	1910	1974
75°	1635	1540	1615
80°	1131	1052	1116
85°	540	475	509



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	3.5
10°-20°	294.7	10.0
20°-30°	445.4	15.1
30°-40°	534.5	18.1
40°-50°	549.9	18.7
50°-60°	484.9	16.4
60°-70°	345.7	11.7
70°-80°	164.2	5.6
80°-90°	25.6	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°	843.0	28.6
0°-40°	1377.5	46.7
0°-60°	2412.4	81.8
0°-90°	2947.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1084	1084	1077	1085	1088	103
15°	1048	1044	1043	1046	1045	295
25°	962	965	967	969	971	444
35°	847	854	854	859	854	533
45°	713	716	712	716	716	547
55°	546	546	540	543	545	485
65°	355	353	344	349	352	351
75°	157	156	148	150	155	169
85°	18	16	15	15	16	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.0	1089.0	1089.0	1089.0	1089.0
2.5°	1089.0	1086.9	1084.9	1088.0	1092.1
5°	1083.9	1083.9	1076.7	1084.9	1088.0
7.5°	1080.8	1074.6	1074.6	1078.7	1082.8
10°	1073.6	1067.4	1066.4	1070.5	1072.6
12.5°	1056.1	1056.1	1058.2	1059.2	1063.3
15°	1047.9	1043.8	1042.7	1045.8	1044.8
17.5°	1029.4	1026.3	1025.2	1031.4	1032.4
20°	1006.7	1007.8	1008.8	1009.8	1009.8
22.5°	988.2	989.3	986.2	996.5	994.4
25°	961.5	964.6	966.6	968.7	970.7
27.5°	940.9	938.9	938.9	943.0	946.1
30°	913.2	912.1	915.2	917.3	915.2
32.5°	884.4	885.4	884.4	887.5	886.4
35°	847.3	853.5	854.5	858.7	854.5
37.5°	820.6	820.6	820.6	823.7	823.7
40°	784.6	787.7	786.7	792.8	789.8
42.5°	747.6	750.7	749.7	756.9	750.7
45°	712.6	715.7	711.6	715.7	715.7
47.5°	666.4	671.5	670.5	677.7	674.6
50°	631.4	635.5	629.3	632.4	633.5
52.5°	586.2	590.3	586.2	588.2	588.2
55°	546.0	546.0	539.9	543.0	545.0
57.5°	496.7	499.8	493.6	495.7	497.7
60°	453.5	452.5	445.3	446.3	450.4
62.5°	404.1	403.1	395.9	396.9	403.1
65°	354.8	352.7	343.5	348.6	351.7
67.5°	305.4	304.4	295.1	296.2	300.3
70°	256.1	255.0	242.7	246.8	250.9
72.5°	205.7	204.6	195.4	198.5	203.6
75°	157.3	156.3	148.1	150.1	155.3
77.5°	114.1	111.1	105.9	109.0	112.1
80°	73.0	73.0	67.9	71.0	72.0
82.5°	40.1	40.1	38.0	39.1	40.1
85°	17.5	16.5	15.4	15.4	16.5
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)