

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: P302496

Luminaire Tested: **FSP-14-30HE-40-CP125**

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: P302496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-4)
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-CP125
Description: 1x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
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

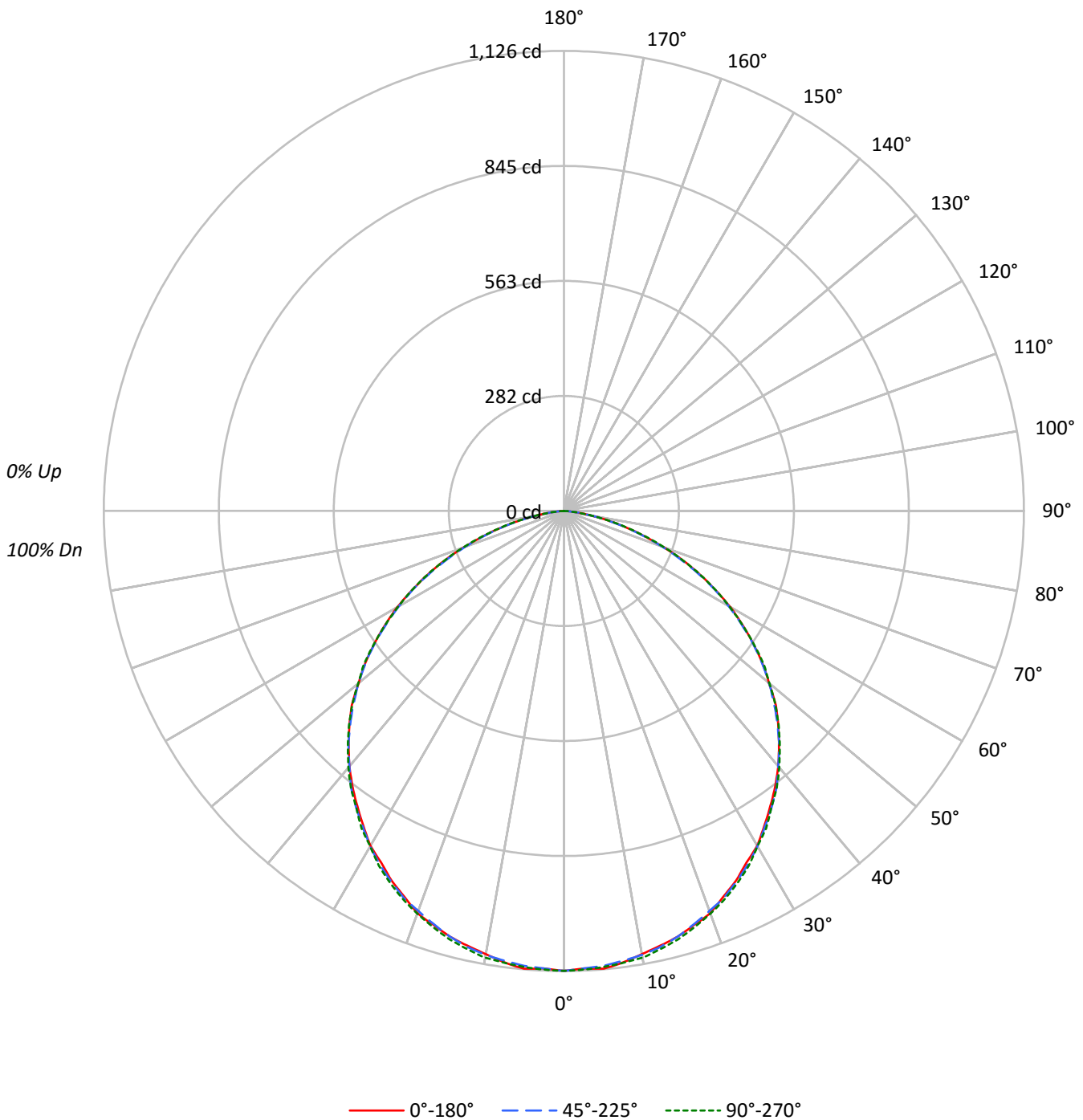
Lumens per Lamp: N/A
Luminaire Lumens: 3058.5 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	55	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	33	60	47	39	33	46	38	33	44	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°	3029	3029	3029
5°	3038	3018	3026
10°	3008	3014	3034
15°	3005	3005	3022
20°	3001	2983	3004
25°	2963	2969	2984
30°	2942	2945	2945
35°	2895	2912	2909
40°	2867	2867	2881
45°	2826	2814	2829
50°	2745	2745	2749
55°	2654	2650	2659
60°	2534	2506	2518
65°	2341	2309	2341
70°	2049	2025	2073
75°	1678	1656	1699
80°	1187	1156	1187
85°	568	537	537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.5
10°-20°	304.8	10.0
20°-30°	461.1	15.1
30°-40°	553.9	18.1
40°-50°	570.6	18.7
50°-60°	503.9	16.5
60°-70°	359.2	11.7
70°-80°	171.3	5.6
80°-90°	27.4	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°	872.3	28.5
0°-40°	1426.2	46.6
0°-60°	2500.7	81.8
0°-90°	3058.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3058.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1124	1120	1117	1120	1120	106
15°	1078	1078	1078	1080	1085	304
25°	998	996	1000	1005	1005	460
35°	881	884	886	889	886	552
45°	742	740	740	742	744	572
55°	566	566	565	562	567	505
65°	368	365	363	358	368	363
75°	161	160	159	157	163	172
85°	18	17	17	17	17	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.5	1125.5	1125.5	1125.5	1125.5
2.5°	1120.4	1121.4	1120.4	1124.5	1123.5
5°	1124.5	1120.4	1117.4	1120.4	1120.4
7.5°	1114.3	1111.2	1110.2	1116.3	1115.3
10°	1101.0	1108.2	1103.1	1107.1	1110.2
12.5°	1089.8	1094.9	1092.8	1103.1	1098.0
15°	1078.5	1078.5	1078.5	1079.6	1084.7
17.5°	1062.2	1061.2	1060.2	1064.2	1067.3
20°	1047.9	1039.7	1041.8	1047.9	1048.9
22.5°	1021.3	1025.4	1024.4	1028.5	1028.5
25°	997.9	995.8	999.9	1005.0	1005.0
27.5°	969.3	972.3	975.4	977.4	979.5
30°	946.8	942.7	947.8	948.8	947.8
32.5°	913.1	912.1	916.1	921.3	921.3
35°	881.4	884.5	886.5	888.6	885.5
37.5°	849.8	848.7	854.9	853.8	855.9
40°	816.1	815.0	816.1	818.1	820.1
42.5°	779.3	776.2	780.3	781.3	782.4
45°	742.5	739.5	739.5	742.5	743.5
47.5°	703.7	697.6	697.6	698.6	702.7
50°	655.7	654.7	655.7	653.7	656.7
52.5°	612.8	611.8	611.8	609.7	616.9
55°	565.8	565.8	564.8	561.7	566.8
57.5°	518.8	517.8	514.8	514.8	517.8
60°	470.8	467.8	465.7	462.7	467.8
62.5°	417.7	417.7	416.7	410.6	418.8
65°	367.7	364.6	362.6	358.5	367.7
67.5°	315.6	312.5	308.4	307.4	315.6
70°	260.4	261.5	257.4	254.3	263.5
72.5°	208.4	212.4	206.3	205.3	212.4
75°	161.4	160.4	159.3	157.3	163.4
77.5°	116.4	115.4	114.4	112.3	118.5
80°	76.6	76.6	74.6	73.5	76.6
82.5°	42.9	41.9	40.9	41.9	43.9
85°	18.4	17.4	17.4	17.4	17.4
87.5°	4.1	4.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)