

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: P302488

Luminaire Tested: **FSP-14-30HE-35-CA08**

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: P302488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-2)
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-CA08
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .08"
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

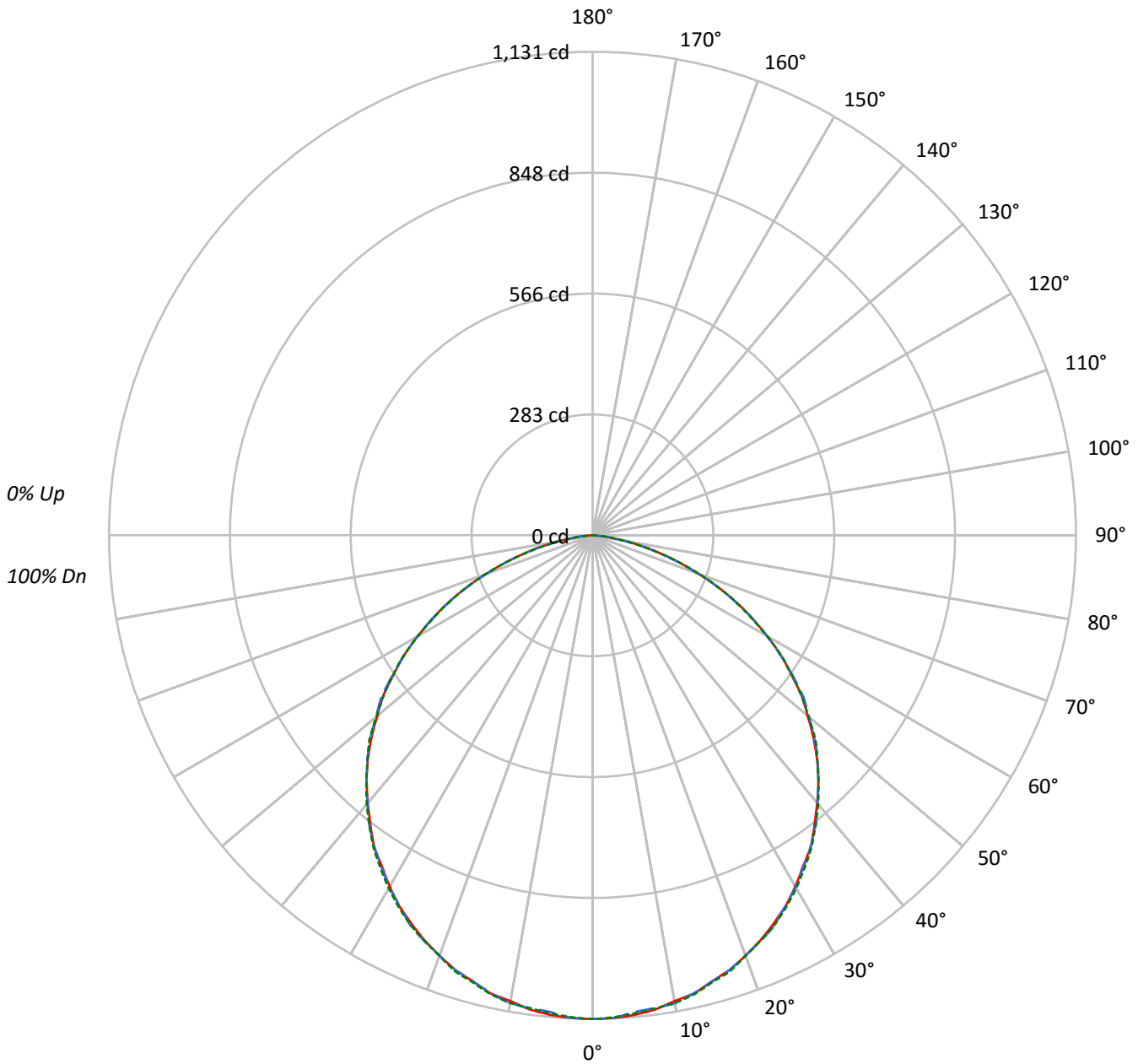
Lumens per Lamp: N/A
Luminaire Lumens: 3089.5 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



— 0°-180° - - 45°-225° - - - 90°-270°



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	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	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3045	3045	3045
5°	3042	3023	3032
10°	3022	3039	3036
15°	3008	3010	3016
20°	2996	2996	2999
25°	2976	2991	2988
30°	2948	2954	2963
35°	2926	2923	2933
40°	2872	2876	2886
45°	2829	2837	2833
50°	2751	2768	2764
55°	2663	2683	2673
60°	2542	2542	2537
65°	2373	2360	2360
70°	2086	2094	2102
75°	1732	1721	1710
80°	1227	1227	1196
85°	627	596	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.5
10°-20°	306.1	9.9
20°-30°	463.2	15.0
30°-40°	556.7	18.0
40°-50°	574.5	18.6
50°-60°	509.6	16.5
60°-70°	366.3	11.9
70°-80°	176.6	5.7
80°-90°	29.6	1.0
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°	876.3	28.4
0°-40°	1433.0	46.4
0°-60°	2517.0	81.5
0°-90°	3089.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3089.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1131	1131	1131	1131	1131	
5°	1126	1126	1119	1127	1122	107
15°	1080	1087	1081	1089	1083	305
25°	1002	1004	1008	1008	1006	462
35°	891	891	890	892	893	555
45°	743	744	746	746	744	572
55°	568	572	572	571	570	508
65°	373	374	371	368	371	367
75°	167	164	166	166	164	178
85°	20	19	19	20	19	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.4	1131.4	1131.4	1131.4	1131.4
2.5°	1130.4	1133.4	1130.4	1132.4	1128.4
5°	1126.3	1126.3	1119.2	1127.4	1122.3
7.5°	1119.2	1120.2	1115.2	1123.3	1116.2
10°	1106.0	1113.1	1112.1	1115.2	1111.1
12.5°	1097.9	1100.9	1096.9	1103.0	1099.9
15°	1079.6	1086.7	1080.6	1088.8	1082.7
17.5°	1066.4	1067.4	1066.4	1070.5	1069.5
20°	1046.1	1048.1	1046.1	1053.2	1047.1
22.5°	1025.8	1027.8	1027.8	1030.9	1026.8
25°	1002.4	1004.5	1007.5	1007.5	1006.5
27.5°	978.1	977.0	977.0	984.2	981.1
30°	948.6	952.7	950.6	955.7	953.7
32.5°	917.1	921.2	919.2	924.2	923.2
35°	890.7	890.7	889.7	891.7	892.7
37.5°	853.1	854.1	857.2	859.2	857.2
40°	817.6	820.6	818.6	820.6	821.6
42.5°	782.0	785.1	782.0	787.1	783.1
45°	743.4	744.5	745.5	746.5	744.5
47.5°	700.8	705.9	704.9	706.9	707.9
50°	657.1	664.2	661.2	663.2	660.2
52.5°	617.5	617.5	622.6	616.5	615.5
55°	567.7	571.8	571.8	570.8	569.8
57.5°	523.1	525.1	521.0	523.1	524.1
60°	472.3	474.3	472.3	471.3	471.3
62.5°	421.5	423.5	423.5	422.5	419.5
65°	372.7	373.8	370.7	367.7	370.7
67.5°	319.9	318.9	318.9	316.9	318.9
70°	265.1	268.1	266.1	264.1	267.1
72.5°	214.3	216.3	213.3	212.3	214.3
75°	166.6	164.5	165.5	165.5	164.5
77.5°	122.9	119.8	117.8	117.8	118.8
80°	79.2	78.2	79.2	77.2	77.2
82.5°	44.7	44.7	44.7	44.7	45.7
85°	20.3	19.3	19.3	20.3	19.3
87.5°	5.1	5.1	6.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)