

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: P302494

Luminaire Tested: **FSP-14-30HE-40-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: P302494
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-40-CA08
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .08"
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

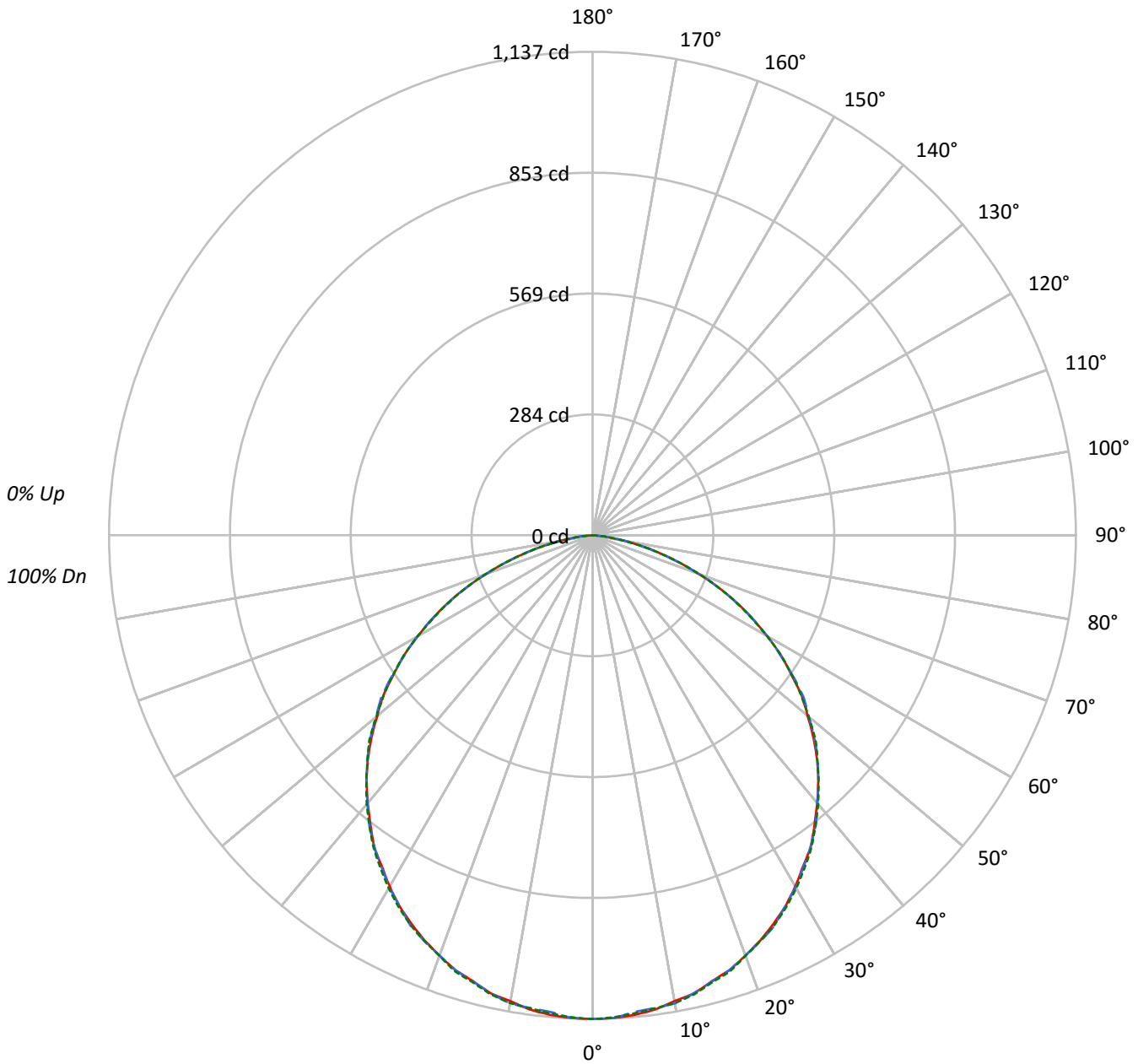
Lumens per Lamp: N/A
Luminaire Lumens: 3105.7 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3061	3061	3061
5°	3059	3039	3048
10°	3038	3055	3052
15°	3024	3026	3032
20°	3011	3011	3014
25°	2992	3007	3004
30°	2963	2969	2979
35°	2941	2938	2948
40°	2887	2891	2902
45°	2844	2852	2848
50°	2766	2783	2778
55°	2677	2697	2687
60°	2555	2555	2549
65°	2386	2373	2373
70°	2097	2105	2113
75°	1740	1730	1720
80°	1234	1234	1203
85°	630	599	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.5
10°-20°	307.7	9.9
20°-30°	465.6	15.0
30°-40°	559.6	18.0
40°-50°	577.5	18.6
50°-60°	512.3	16.5
60°-70°	368.2	11.9
70°-80°	177.5	5.7
80°-90°	29.7	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°	880.9	28.4
0°-40°	1440.5	46.4
0°-60°	2530.3	81.5
0°-90°	3105.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1132	1132	1125	1133	1128	107
15°	1085	1092	1086	1094	1088	307
25°	1008	1010	1013	1013	1012	464
35°	895	895	894	896	897	558
45°	747	748	749	750	748	575
55°	571	575	575	574	573	511
65°	375	376	373	370	373	369
75°	167	165	166	166	165	179
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°	1137.4	1137.4	1137.4	1137.4	1137.4
2.5°	1136.3	1139.4	1136.3	1138.4	1134.3
5°	1132.3	1132.3	1125.1	1133.3	1128.2
7.5°	1125.1	1126.1	1121.0	1129.2	1122.0
10°	1111.8	1119.0	1118.0	1121.0	1116.9
12.5°	1103.7	1106.7	1102.6	1108.8	1105.7
15°	1085.3	1092.4	1086.3	1094.5	1088.4
17.5°	1072.0	1073.0	1072.0	1076.1	1075.1
20°	1051.6	1053.6	1051.6	1058.7	1052.6
22.5°	1031.2	1033.2	1033.2	1036.3	1032.2
25°	1007.7	1009.7	1012.8	1012.8	1011.8
27.5°	983.2	982.2	982.2	989.3	986.3
30°	953.6	957.7	955.6	960.7	958.7
32.5°	921.9	926.0	924.0	929.1	928.1
35°	895.4	895.4	894.4	896.4	897.4
37.5°	857.6	858.6	861.7	863.7	861.7
40°	821.9	824.9	822.9	824.9	826.0
42.5°	786.1	789.2	786.1	791.3	787.2
45°	747.4	748.4	749.4	750.4	748.4
47.5°	704.5	709.6	708.6	710.6	711.6
50°	660.6	667.7	664.7	666.7	663.6
52.5°	620.8	620.8	625.9	619.7	618.7
55°	570.7	574.8	574.8	573.8	572.8
57.5°	525.8	527.8	523.8	525.8	526.8
60°	474.8	476.8	474.8	473.7	473.7
62.5°	423.7	425.7	425.7	424.7	421.7
65°	374.7	375.7	372.7	369.6	372.7
67.5°	321.6	320.6	320.6	318.5	320.6
70°	266.5	269.5	267.5	265.5	268.5
72.5°	215.4	217.5	214.4	213.4	215.4
75°	167.4	165.4	166.4	166.4	165.4
77.5°	123.5	120.5	118.4	118.4	119.5
80°	79.6	78.6	79.6	77.6	77.6
82.5°	44.9	44.9	44.9	44.9	45.9
85°	20.4	19.4	19.4	20.4	19.4
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)