

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: P302476

Luminaire Tested: **FSP-14-26-35-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: P302476
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-14-26-35-CA08
Description: 1x4 Fail Safe Flat Panel Clear Acrylic Lens .08"
Light Source: (154) 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

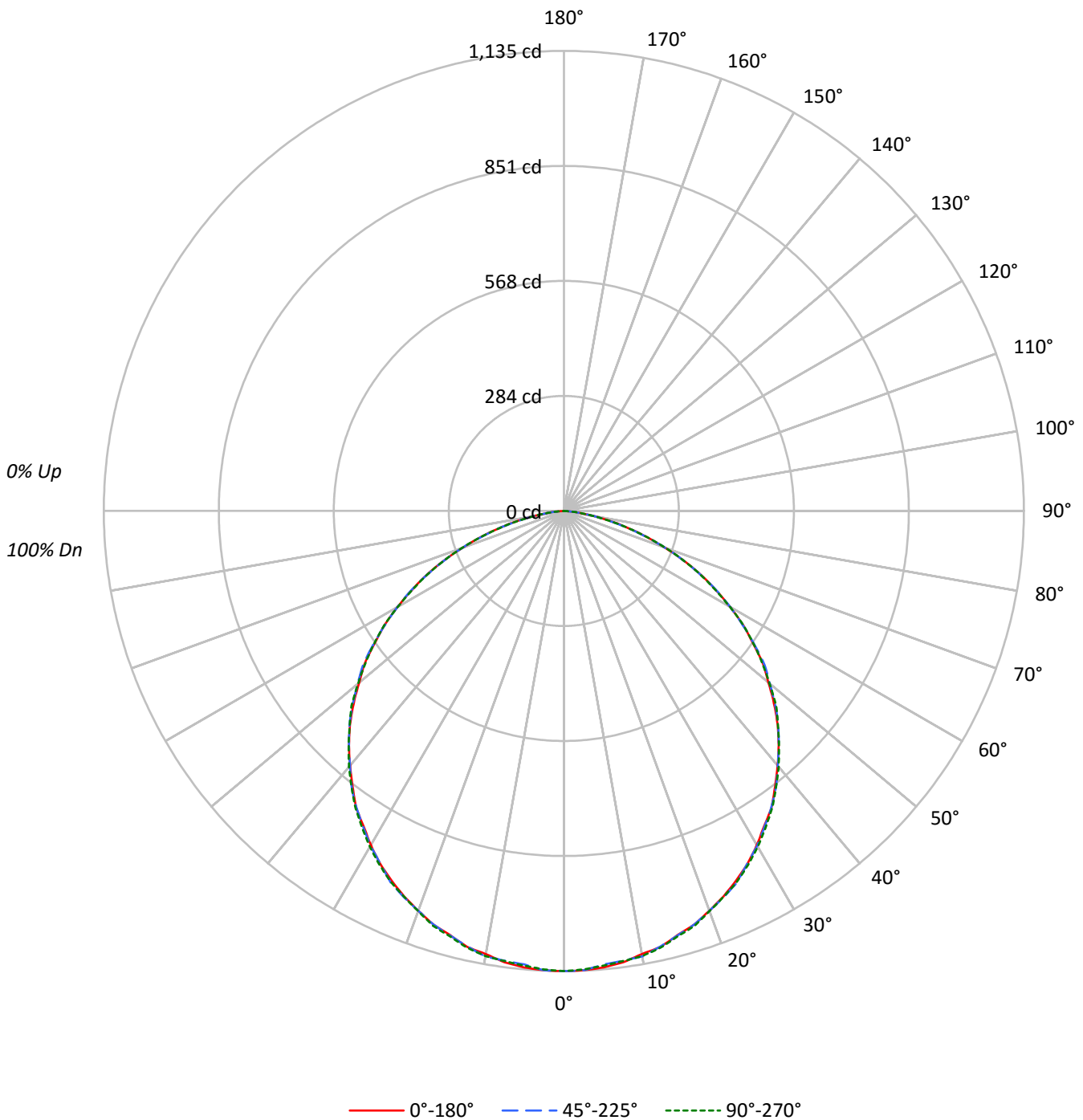
Lumens per Lamp: N/A
Luminaire Lumens: 3099.8 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.5
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	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°	3055	3055	3055
5°	3053	3034	3042
10°	3032	3049	3046
15°	3018	3020	3026
20°	3006	3006	3009
25°	2986	3002	2998
30°	2958	2964	2973
35°	2936	2933	2942
40°	2882	2885	2896
45°	2839	2847	2842
50°	2760	2777	2773
55°	2672	2692	2682
60°	2550	2550	2545
65°	2381	2368	2368
70°	2093	2101	2109
75°	1737	1727	1717
80°	1232	1232	1199
85°	630	599	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.5
10°-20°	307.1	9.9
20°-30°	464.7	15.0
30°-40°	558.5	18.0
40°-50°	576.4	18.6
50°-60°	511.3	16.5
60°-70°	367.5	11.9
70°-80°	177.2	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°	879.2	28.4
0°-40°	1437.8	46.4
0°-60°	2525.4	81.5
0°-90°	3099.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3099.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1135	1135	1135	1135	1135	
5°	1130	1130	1123	1131	1126	107
15°	1083	1090	1084	1092	1086	306
25°	1006	1008	1011	1011	1010	464
35°	894	894	893	895	896	557
45°	746	747	748	749	747	574
55°	570	574	574	573	572	510
65°	374	375	372	369	372	368
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°	1135.2	1135.2	1135.2	1135.2	1135.2
2.5°	1134.2	1137.2	1134.2	1136.2	1132.1
5°	1130.1	1130.1	1123.0	1131.1	1126.0
7.5°	1123.0	1124.0	1118.9	1127.0	1119.9
10°	1109.7	1116.8	1115.8	1118.9	1114.8
12.5°	1101.6	1104.6	1100.5	1106.6	1103.6
15°	1083.2	1090.3	1084.2	1092.4	1086.3
17.5°	1070.0	1071.0	1070.0	1074.0	1073.0
20°	1049.6	1051.6	1049.6	1056.7	1050.6
22.5°	1029.2	1031.2	1031.2	1034.3	1030.2
25°	1005.8	1007.8	1010.9	1010.9	1009.8
27.5°	981.3	980.3	980.3	987.4	984.4
30°	951.8	955.8	953.8	958.9	956.9
32.5°	920.2	924.2	922.2	927.3	926.3
35°	893.7	893.7	892.7	894.7	895.7
37.5°	856.0	857.0	860.0	862.1	860.0
40°	820.3	823.4	821.3	823.4	824.4
42.5°	784.6	787.7	784.6	789.7	785.7
45°	745.9	746.9	748.0	749.0	746.9
47.5°	703.1	708.2	707.2	709.2	710.3
50°	659.3	666.4	663.4	665.4	662.4
52.5°	619.6	619.6	624.7	618.5	617.5
55°	569.6	573.7	573.7	572.7	571.7
57.5°	524.8	526.8	522.8	524.8	525.8
60°	473.8	475.9	473.8	472.8	472.8
62.5°	422.9	424.9	424.9	423.9	420.9
65°	374.0	375.0	371.9	368.9	371.9
67.5°	321.0	320.0	320.0	317.9	320.0
70°	266.0	269.0	267.0	264.9	268.0
72.5°	215.0	217.1	214.0	213.0	215.0
75°	167.1	165.1	166.1	166.1	165.1
77.5°	123.3	120.2	118.2	118.2	119.2
80°	79.5	78.5	79.5	77.4	77.4
82.5°	44.8	44.8	44.8	44.8	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)