

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: P302549

Luminaire Tested: **FSP-22-32-35-CA125**

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: P302549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-22-32-35-CA125
Description: 2x2 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (210) 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

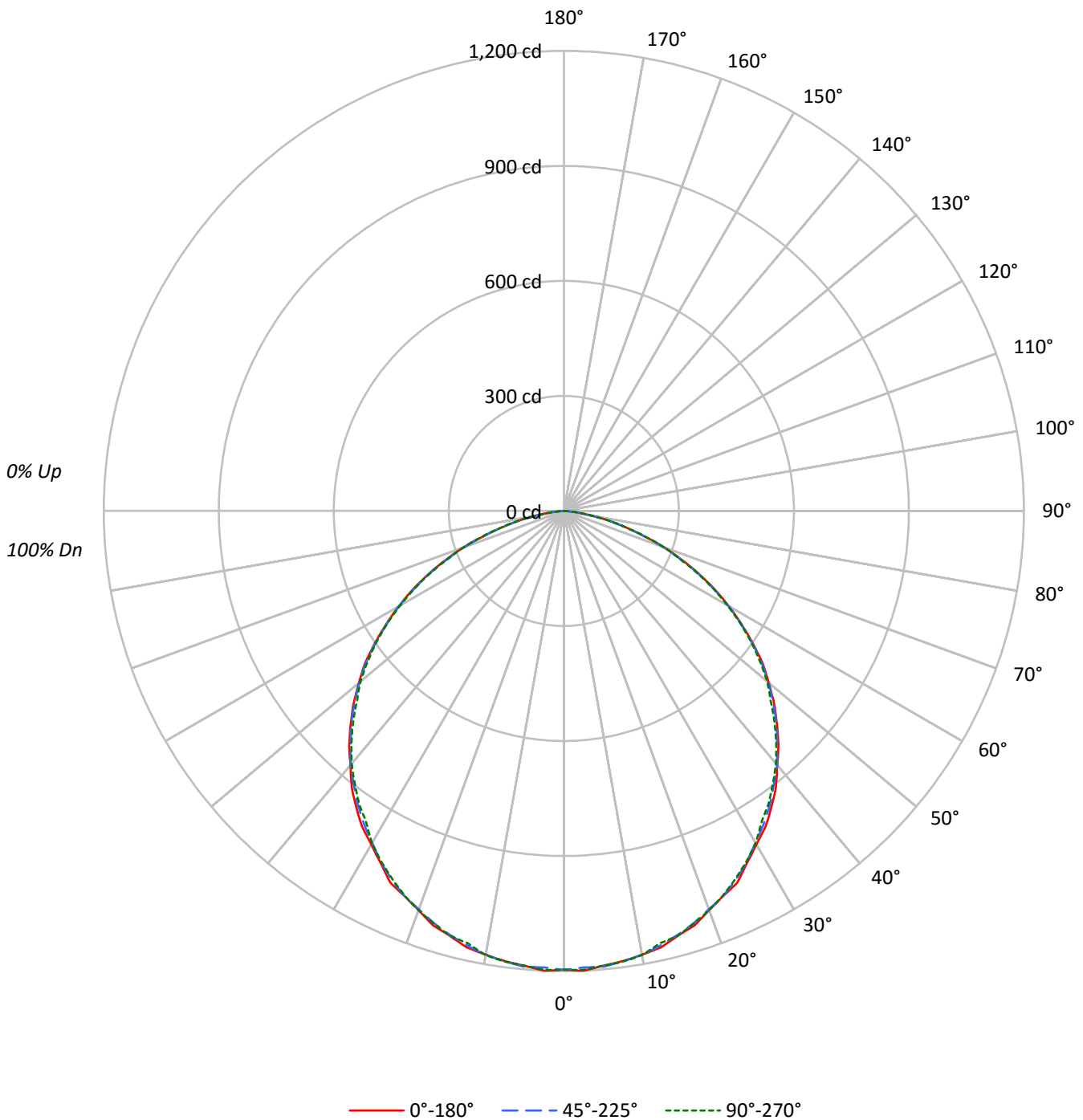
Lumens per Lamp: N/A
Luminaire Lumens: 3243.8 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	54	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	42	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	51	43	37	50	42	37	48	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°	3220	3220	3220
5°	3215	3222	3215
10°	3211	3211	3215
15°	3197	3190	3197
20°	3174	3166	3174
25°	3178	3152	3144
30°	3122	3106	3110
35°	3101	3076	3059
40°	3041	3041	3023
45°	2991	2986	2957
50°	2920	2915	2899
55°	2822	2810	2798
60°	2673	2666	2652
65°	2478	2462	2454
70°	2207	2168	2198
75°	1774	1760	1774
80°	1272	1234	1234
85°	624	624	624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.5
10°-20°	323.4	10.0
20°-30°	488.4	15.1
30°-40°	585.6	18.1
40°-50°	603.2	18.6
50°-60°	534.2	16.5
60°-70°	382.0	11.8
70°-80°	182.9	5.6
80°-90°	30.9	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°	925.0	28.5
0°-40°	1510.6	46.6
0°-60°	2648.0	81.6
0°-90°	3243.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3243.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1190	1189	1193	1190	1190	113
15°	1147	1147	1145	1145	1147	324
25°	1070	1063	1062	1058	1059	490
35°	944	939	936	934	931	590
45°	786	785	785	781	777	606
55°	602	599	599	595	596	537
65°	389	387	387	387	385	385
75°	171	171	169	169	171	184
85°	20	20	20	20	20	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1200.5	1196.7	1191.6	1195.4	1197.9
5°	1190.3	1189.1	1192.9	1190.3	1190.3
7.5°	1184.0	1186.6	1185.3	1185.3	1185.3
10°	1175.2	1175.2	1175.2	1173.9	1176.4
12.5°	1166.3	1160.0	1161.3	1161.3	1155.0
15°	1147.4	1147.4	1144.9	1144.9	1147.4
17.5°	1133.5	1131.0	1127.2	1127.2	1128.4
20°	1108.2	1108.2	1105.7	1103.2	1108.2
22.5°	1086.7	1091.8	1086.7	1081.7	1085.5
25°	1070.3	1062.7	1061.5	1057.7	1058.9
27.5°	1034.9	1031.1	1032.4	1029.9	1031.1
30°	1004.6	1002.1	999.5	997.0	1000.8
32.5°	978.1	975.5	969.2	967.9	960.4
35°	943.9	938.9	936.4	933.8	931.3
37.5°	908.6	903.5	899.7	898.4	895.9
40°	865.6	863.1	865.6	859.3	860.5
42.5°	828.9	826.4	822.6	820.1	820.1
45°	786.0	784.7	784.7	780.9	777.1
47.5°	744.3	743.0	740.5	735.4	731.6
50°	697.5	698.8	696.3	691.2	692.5
52.5°	654.6	647.0	650.8	645.7	644.5
55°	601.5	599.0	599.0	595.2	596.4
57.5°	549.7	549.7	547.2	547.2	545.9
60°	496.6	495.3	495.3	494.1	492.8
62.5°	444.8	443.5	441.0	441.0	439.7
65°	389.2	386.7	386.7	386.7	385.4
67.5°	333.6	331.1	329.8	329.8	328.5
70°	280.5	276.7	275.5	275.5	279.3
72.5°	221.1	222.4	221.1	222.4	223.7
75°	170.6	170.6	169.3	169.3	170.6
77.5°	123.8	123.8	123.8	123.8	125.1
80°	82.1	79.6	79.6	79.6	79.6
82.5°	45.5	45.5	45.5	46.8	48.0
85°	20.2	20.2	20.2	20.2	20.2
87.5°	7.6	7.6	7.6	7.6	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)