

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: P302633

Luminaire Tested: **FSP-24-64-35-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: P302633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-24-64-35-CA125
Description: 2x4 Fail Safe Flat Panel Clear Acrylic Lens .125"
Light Source: (350) 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

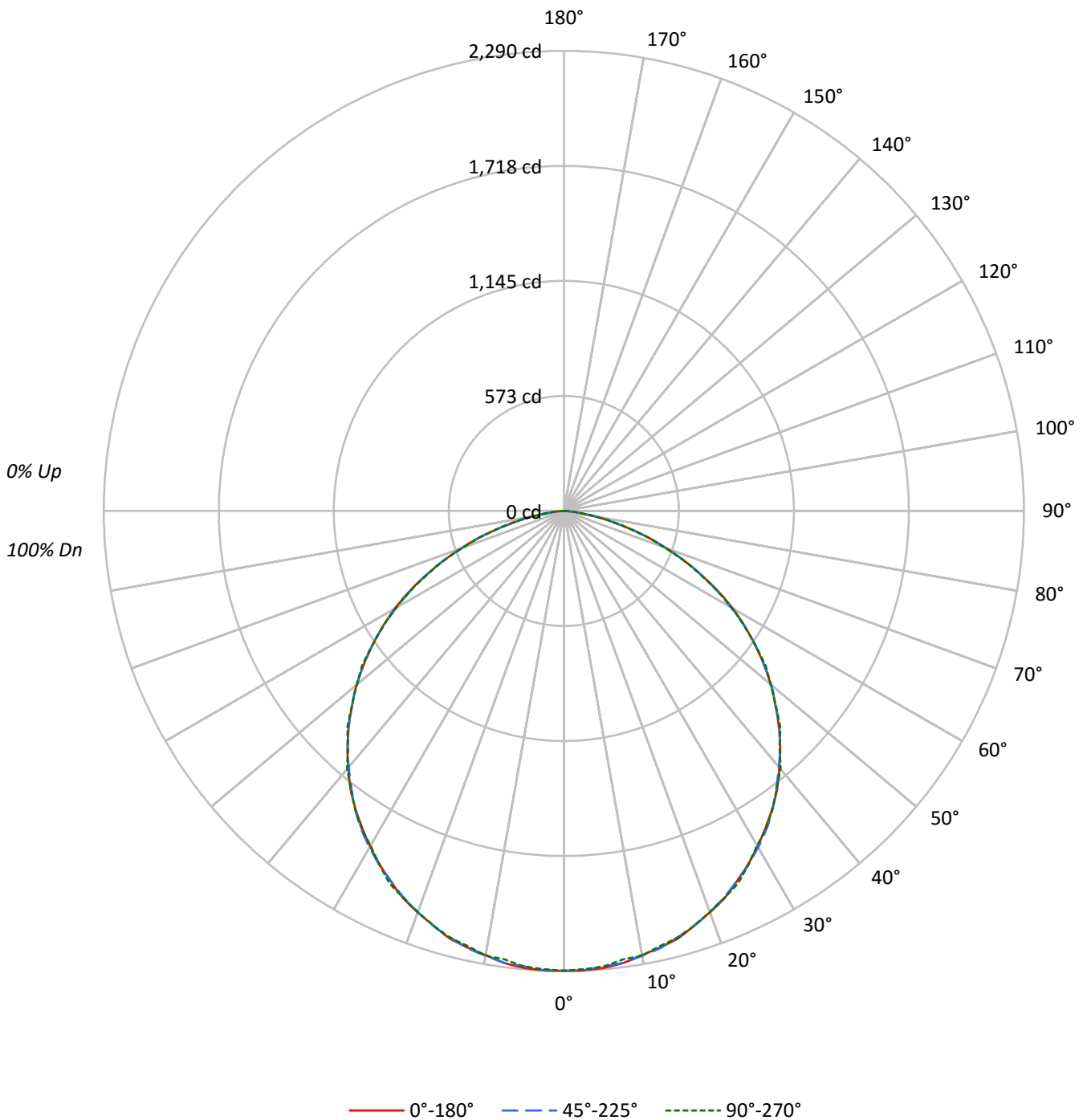
Lumens per Lamp: N/A
Luminaire Lumens: 6279.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60.3
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	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	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	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	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	35	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°	3079	3079	3079
5°	3083	3073	3073
10°	3067	3071	3069
15°	3068	3058	3061
20°	3045	3042	3042
25°	3022	3019	3041
30°	2996	3005	2988
35°	2971	2977	2974
40°	2931	2925	2947
45°	2878	2885	2899
50°	2817	2824	2813
55°	2726	2730	2726
60°	2614	2585	2595
65°	2411	2417	2388
70°	2136	2122	2114
75°	1737	1756	1746
80°	1238	1238	1224
85°	588	588	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	3.4
10°-20°	619.7	9.9
20°-30°	938.8	14.9
30°-40°	1130.9	18.0
40°-50°	1167.7	18.6
50°-60°	1038.7	16.5
60°-70°	747.2	11.9
70°-80°	360.7	5.7
80°-90°	59.8	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°	1774.7	28.3
0°-40°	2905.6	46.3
0°-60°	5112.0	81.4
0°-90°	6279.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6279.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2283	2274	2275	2270	2275	217
15°	2203	2199	2196	2201	2197	620
25°	2036	2036	2034	2034	2048	939
35°	1809	1807	1812	1810	1810	1131
45°	1513	1514	1516	1514	1524	1167
55°	1162	1160	1164	1166	1162	1038
65°	757	759	759	761	750	750
75°	334	336	338	338	336	361
85°	38	40	38	38	40	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2288.1	2288.1	2288.1	2288.1	2288.1
2.5°	2289.9	2288.1	2288.1	2277.2	2282.6
5°	2282.6	2273.5	2275.4	2269.9	2275.4
7.5°	2269.9	2264.5	2268.1	2255.4	2251.7
10°	2244.5	2246.3	2248.1	2239.0	2246.3
12.5°	2224.5	2230.0	2228.1	2219.1	2217.2
15°	2202.7	2199.1	2195.5	2200.9	2197.3
17.5°	2162.8	2159.1	2164.6	2162.8	2162.8
20°	2126.4	2124.6	2124.6	2119.2	2124.6
22.5°	2088.3	2082.9	2082.9	2090.1	2084.7
25°	2035.7	2035.7	2033.8	2033.8	2048.4
27.5°	1984.8	1983.0	1988.4	1992.1	1986.6
30°	1928.5	1928.5	1934.0	1930.3	1923.1
32.5°	1868.6	1866.8	1877.7	1872.2	1874.0
35°	1808.7	1806.8	1812.3	1810.5	1810.5
37.5°	1745.1	1734.2	1737.8	1746.9	1739.7
40°	1668.8	1667.0	1665.2	1668.8	1677.9
42.5°	1594.4	1590.8	1592.6	1596.2	1588.9
45°	1512.7	1514.5	1516.3	1514.5	1523.6
47.5°	1429.1	1432.8	1429.1	1438.2	1429.1
50°	1345.6	1343.8	1349.2	1349.2	1343.8
52.5°	1254.8	1256.6	1254.8	1262.1	1265.7
55°	1162.2	1160.4	1164.0	1165.8	1162.2
57.5°	1067.8	1067.8	1065.9	1073.2	1065.9
60°	971.5	964.3	960.6	964.3	964.3
62.5°	866.2	860.7	860.7	860.7	860.7
65°	757.2	759.1	759.1	760.9	750.0
67.5°	651.9	648.3	651.9	646.5	648.3
70°	543.0	544.8	539.3	543.0	537.5
72.5°	441.3	441.3	441.3	437.6	437.6
75°	334.1	335.9	337.8	337.8	335.9
77.5°	243.3	241.5	243.3	243.3	243.3
80°	159.8	156.2	159.8	158.0	158.0
82.5°	89.0	90.8	90.8	92.6	92.6
85°	38.1	40.0	38.1	38.1	40.0
87.5°	10.9	10.9	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)