

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: P302640

Luminaire Tested: **FSP-24-64-40-CP125**

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: P302640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FSP-24-64-40-CP125
Description: 2x4 Fail Safe Flat Panel Clear Polycarbonate Lens .125"
Light Source: (308) 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

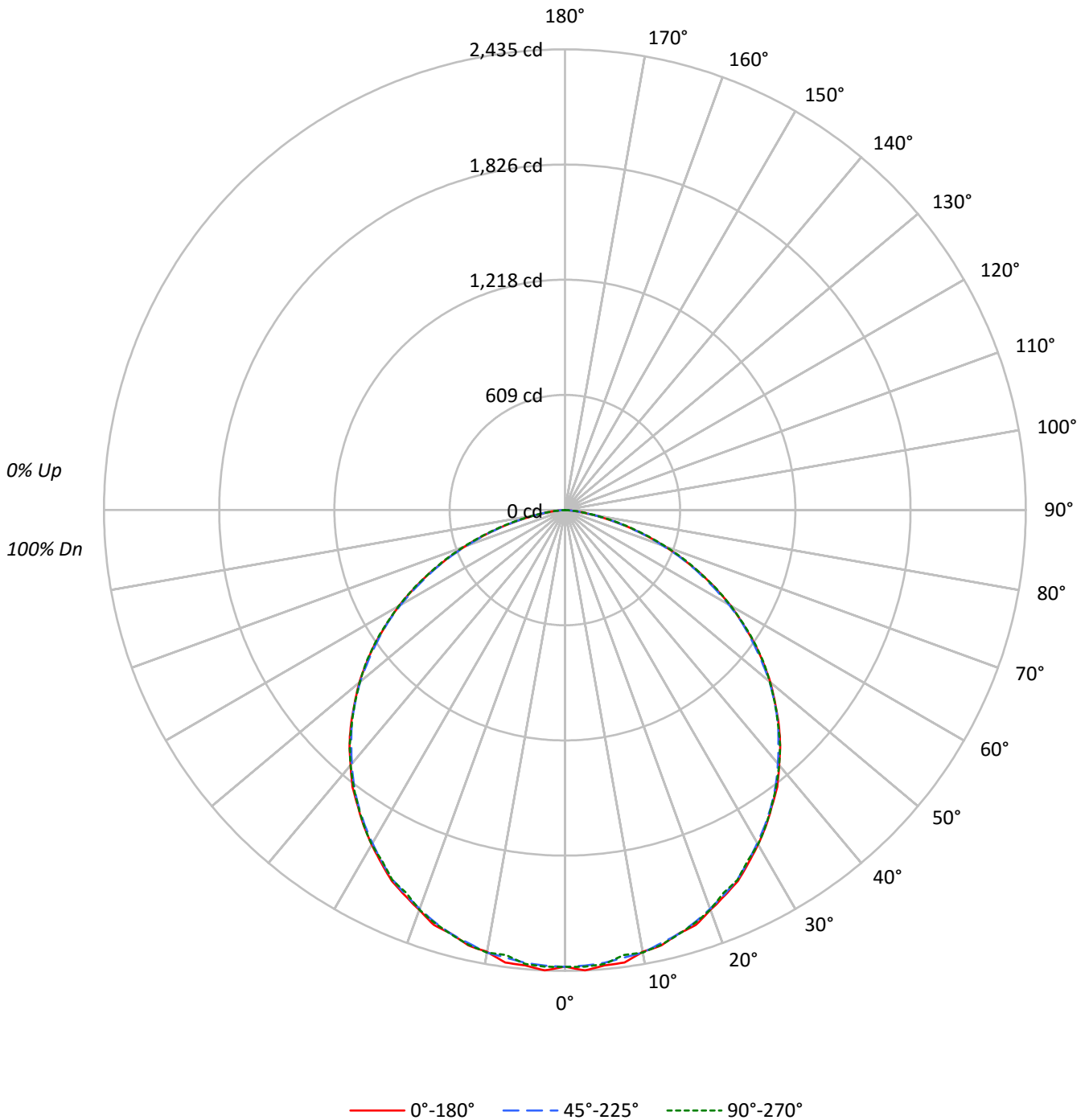
Lumens per Lamp: N/A
Luminaire Lumens: 6585.2 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 62.2
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°	3247	3247	3247
5°	3262	3244	3252
10°	3238	3244	3244
15°	3228	3231	3233
20°	3220	3211	3217
25°	3210	3199	3202
30°	3171	3159	3171
35°	3133	3127	3130
40°	3092	3075	3092
45°	3040	3029	3029
50°	2967	2955	2959
55°	2861	2838	2870
60°	2722	2696	2722
65°	2509	2478	2515
70°	2214	2175	2244
75°	1794	1794	1855
80°	1246	1246	1322
85°	605	605	665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.5	3.5
10°-20°	654.7	9.9
20°-30°	991.5	15.1
30°-40°	1191.9	18.1
40°-50°	1228.8	18.7
50°-60°	1085.2	16.5
60°-70°	773.9	11.8
70°-80°	369.4	5.6
80°-90°	61.2	0.9
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°	1874.7	28.5
0°-40°	3066.6	46.6
0°-60°	5380.6	81.7
0°-90°	6585.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6585.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2414	2414	2414	2414	2414	
5°	2415	2404	2402	2398	2408	230
15°	2317	2323	2319	2317	2321	656
25°	2162	2155	2155	2151	2157	994
35°	1908	1902	1904	1906	1906	1195
45°	1598	1594	1592	1594	1592	1231
55°	1220	1216	1210	1214	1223	1088
65°	788	792	778	776	790	779
75°	345	349	345	337	357	370
85°	39	39	39	41	43	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2413.5	2413.5	2413.5	2413.5	2413.5
2.5°	2435.0	2413.5	2409.5	2413.5	2415.4
5°	2415.4	2403.7	2401.7	2397.8	2407.6
7.5°	2411.5	2395.8	2386.0	2386.0	2372.3
10°	2370.3	2378.2	2374.3	2366.4	2374.3
12.5°	2356.6	2348.8	2344.8	2344.8	2352.7
15°	2317.4	2323.3	2319.4	2317.4	2321.3
17.5°	2299.8	2290.0	2284.1	2282.1	2288.0
20°	2248.8	2242.9	2242.9	2244.9	2246.8
22.5°	2205.6	2197.8	2199.8	2205.6	2190.0
25°	2162.5	2154.7	2154.7	2150.8	2156.6
27.5°	2101.7	2097.8	2093.9	2097.8	2090.0
30°	2041.0	2035.1	2033.1	2039.0	2041.0
32.5°	1978.2	1974.3	1970.4	1972.3	1976.3
35°	1907.6	1901.8	1903.7	1905.7	1905.7
37.5°	1842.9	1833.1	1831.2	1837.1	1835.1
40°	1760.6	1764.5	1750.8	1758.6	1760.6
42.5°	1684.1	1676.3	1670.4	1688.1	1682.2
45°	1597.9	1593.9	1592.0	1593.9	1592.0
47.5°	1505.7	1507.7	1501.8	1509.6	1503.8
50°	1417.5	1419.5	1411.6	1411.6	1413.6
52.5°	1319.5	1325.3	1309.7	1307.7	1323.4
55°	1219.5	1215.6	1209.7	1213.6	1223.4
57.5°	1113.6	1115.6	1111.6	1113.6	1117.5
60°	1011.7	1007.7	1001.9	992.1	1011.7
62.5°	899.9	903.8	886.2	886.2	905.8
65°	788.2	792.1	778.3	776.4	790.1
67.5°	674.4	674.4	668.6	658.8	684.2
70°	562.7	562.7	552.9	552.9	570.5
72.5°	450.9	449.0	447.0	441.1	460.7
75°	345.1	349.0	345.1	337.2	356.8
77.5°	247.0	251.0	245.1	247.0	256.8
80°	160.8	160.8	160.8	158.8	170.6
82.5°	94.1	92.1	92.1	94.1	98.0
85°	39.2	39.2	39.2	41.2	43.1
87.5°	9.8	9.8	11.8	9.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)