

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: 262p102

Luminaire Tested: **SGI-G-324-UNV-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: 262p102
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: SGI-G-324-UNV-CA08
Description: 2X2 RECESSED TROFFER, 3 LAMP T5HO 24W, PERF. BASKET WITH COATED INLAY, CLEAR PLASTIC LENS
Light Source: THREE 2' T5 LINEAR FLUORESCENT HIGH OUTPUT LAMPS F24WT5HO 24 WATTS
Ballast/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

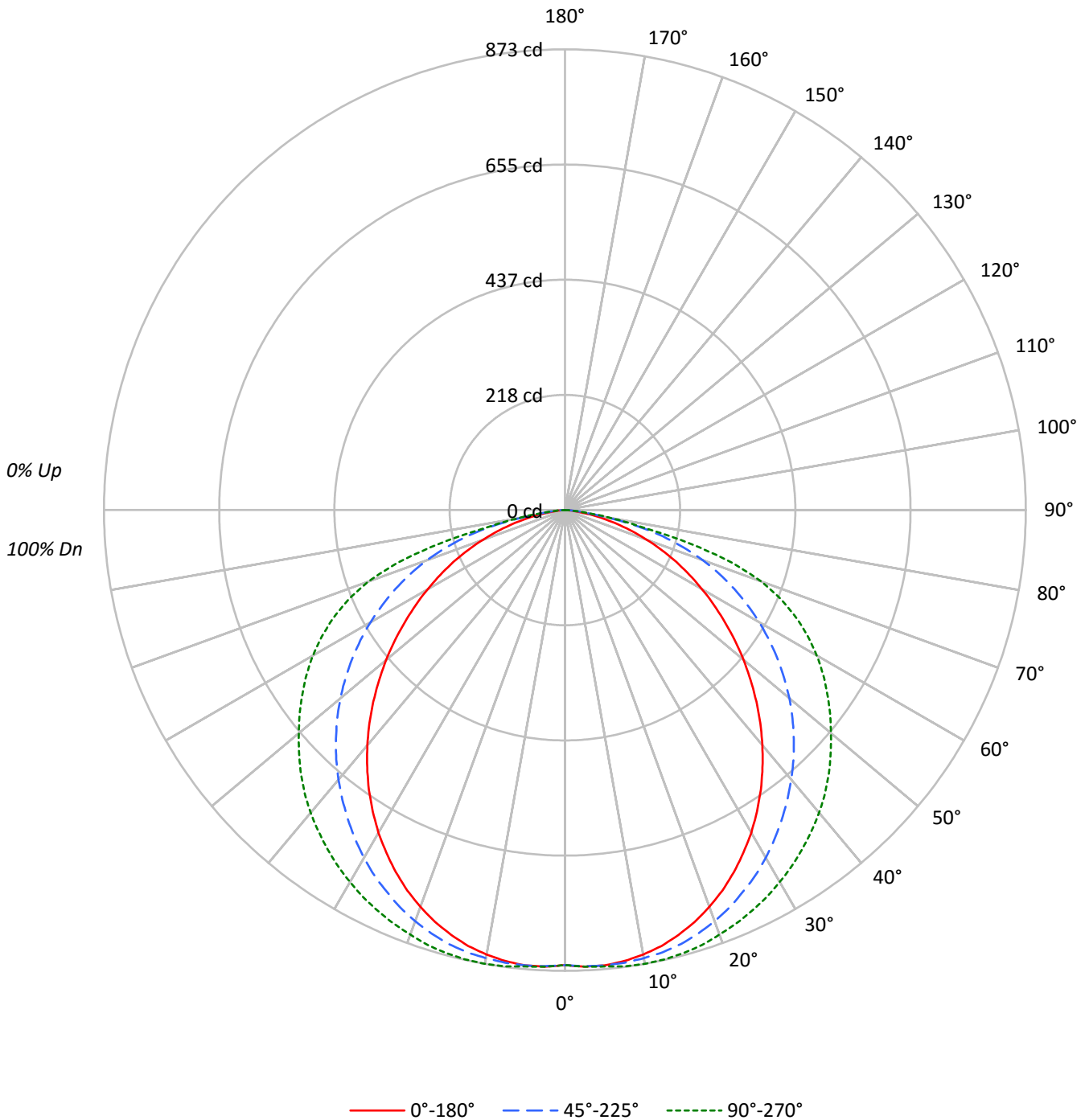
Lumens per Lamp: 1740 (3 lamps)
Luminaire Lumens: 2618.4 lumens
Efficiency: 50.2%
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.4 / 1.43
Luminous Opening: Rectangular (W 1.79' x L: 1.79' x H: 0')
CIE Type: Direct

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): 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	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50
1	55	52	50	48	53	51	49	47	49	47	46	47	46	44	45	44	43	42
2	50	45	42	39	48	44	41	39	43	40	38	41	39	37	39	38	36	35
3	45	40	36	32	44	39	35	32	37	34	31	36	33	31	35	32	30	29
4	41	35	31	27	40	34	30	27	33	29	27	32	29	26	31	28	26	25
5	38	31	27	23	37	31	26	23	30	26	23	29	25	23	28	25	22	21
6	35	28	24	20	34	28	23	20	27	23	20	26	22	20	25	22	20	19
7	32	25	21	18	31	25	21	18	24	20	18	23	20	17	23	20	17	16
8	30	23	19	16	29	23	19	16	22	18	16	21	18	16	21	18	16	15
9	28	21	17	14	27	21	17	14	20	17	14	20	16	14	19	16	14	13
10	26	20	16	13	26	19	15	13	19	15	13	18	15	13	18	15	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2890	2890	2890
5°	2915	2915	2922
10°	2911	2935	2972
15°	2892	2954	3017
20°	2855	2958	3055
25°	2801	2952	3100
30°	2734	2947	3152
35°	2648	2931	3209
40°	2548	2920	3279
45°	2433	2907	3353
50°	2306	2895	3433
55°	2163	2876	3549
60°	2012	2850	3695
65°	1849	2809	3840
70°	1627	2726	3882
75°	1334	2487	3200
80°	966	1603	1796
85°	539	731	731



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	82.6	3.2	1.6	0°	862	862	862	862	862	
10°-20°	240.1	9.2	4.6	5°	866	866	866	867	868	82
20°-30°	367.9	14.1	7.0	15°	833	837	851	863	869	235
30°-40°	448.4	17.1	8.6	25°	757	771	798	825	838	348
40°-50°	472.2	18.0	9.0	35°	647	672	716	763	784	404
50°-60°	438.2	16.7	8.4	45°	513	547	613	679	707	395
60°-70°	351.0	13.4	6.7	55°	370	408	492	572	607	331
70°-80°	190.0	7.3	3.6	65°	233	265	354	446	484	230
80°-90°	28.0	1.1	0.5	75°	103	128	192	240	247	111
90°-100°	0.0	0.0	0.0	85°	14	16	19	20	19	20
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	690.6	26.4	13.2							
0°-40°	1139.0	43.5	21.8							
0°-60°	2049.4	78.3	39.3							
0°-90°	2618.4	100.0	50.2							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2618.4	100.0	50.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862	862	862	862	862
2.5°	866	865	865	865	866
5°	866	866	866	867	868
7.5°	862	863	865	869	872
10°	855	857	862	870	873
12.5°	846	848	858	868	872
15°	833	837	851	863	869
17.5°	818	824	841	856	864
20°	800	809	829	847	856
22.5°	780	791	815	837	848
25°	757	771	798	825	838
27.5°	732	749	781	812	827
30°	706	726	761	797	814
32.5°	677	700	739	781	800
35°	647	672	716	763	784
37.5°	615	642	692	744	767
40°	582	611	667	724	749
42.5°	548	579	641	702	729
45°	513	547	613	679	707
47.5°	477	513	585	654	683
50°	442	479	555	628	658
52.5°	406	442	524	600	633
55°	370	408	492	572	607
57.5°	335	373	459	543	580
60°	300	337	425	513	551
62.5°	266	301	390	480	519
65°	233	265	354	446	484
67.5°	199	230	317	407	444
70°	166	196	278	363	396
72.5°	134	162	236	309	333
75°	103	128	192	240	247
77.5°	75	95	142	148	150
80°	50	64	83	90	93
82.5°	28	35	41	47	47
85°	14	16	19	20	19
87.5°	5	6	7	7	7
90°	0	0	0	0	0

(END OF REPORT)