

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: 262p103

Luminaire Tested: **SGI-G-224-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: 262p103
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: SGI-G-224-UNV-CA08
Description: 2X2 RECESSED TROFFER, 2 LAMP T5HO 24W, PERF. BASKET WITH COATED INLAY, CLEAR PLASTIC LENS
Light Source: TWO 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

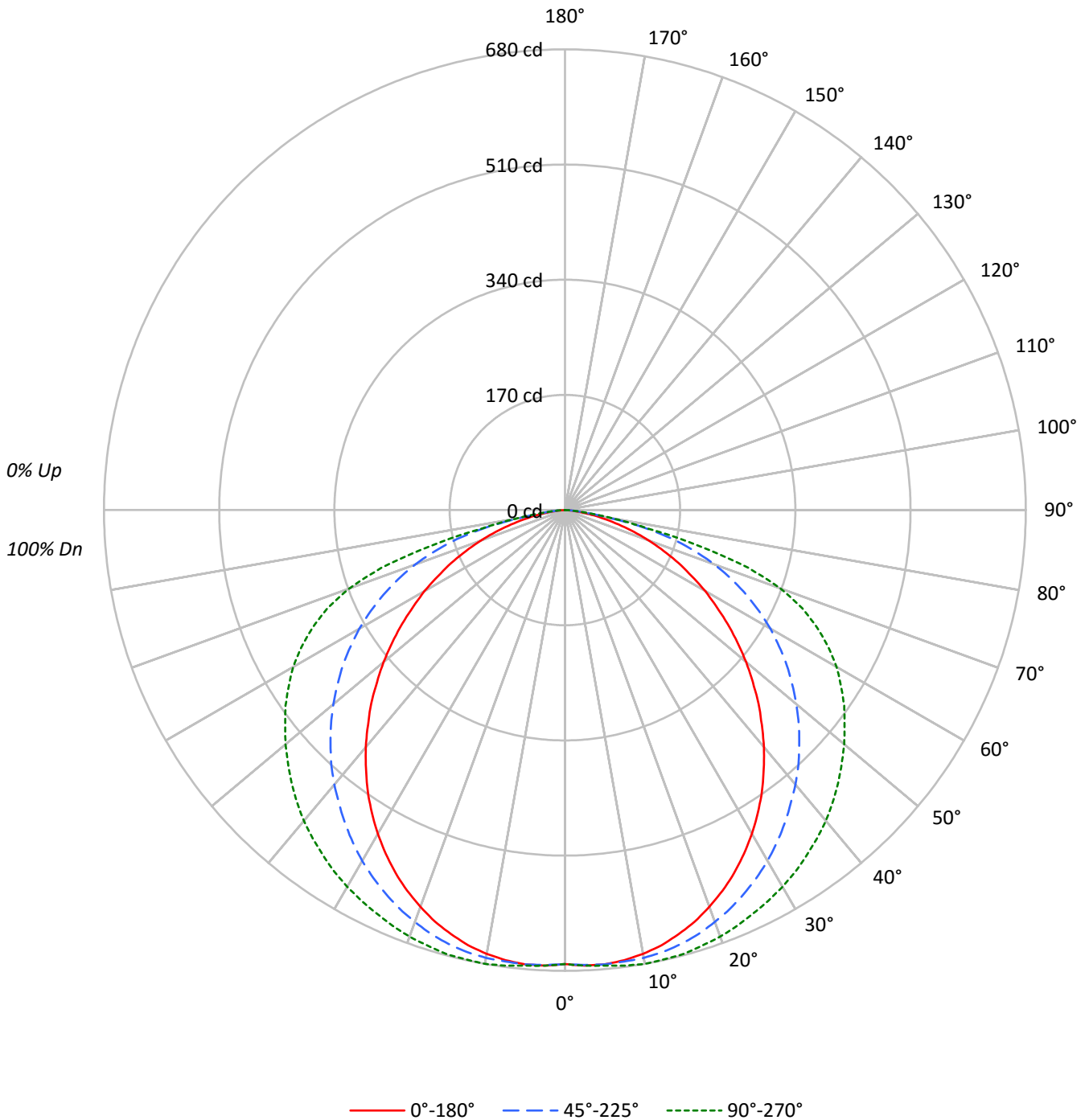
Lumens per Lamp: 1740 (2 lamps)
Luminaire Lumens: 2101.0 lumens
Efficiency: 60.4%
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.42 / 1.45
Luminous Opening: Rectangular (W 1.79' x L: 1.79' x H: 0')
CIE Type: Direct

Input Watts (W): 46
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	72	72	72	72	70	70	70	70	67	67	67	64	64	64	62	62	62	60
1	66	63	60	58	64	61	59	57	59	57	55	56	55	53	54	53	52	50
2	59	54	50	47	58	53	49	46	51	48	45	49	46	44	47	45	43	42
3	54	48	42	38	53	47	42	38	45	41	37	43	40	37	41	39	36	35
4	49	42	36	32	48	41	36	32	40	35	32	38	34	31	37	34	31	29
5	45	37	32	28	44	37	31	27	35	31	27	34	30	27	33	29	27	25
6	42	33	28	24	41	33	28	24	32	27	24	31	27	23	30	26	23	22
7	39	30	25	21	38	30	25	21	29	24	21	28	24	21	27	23	21	19
8	36	28	22	19	35	27	22	19	26	22	19	26	21	18	25	21	18	17
9	34	25	20	17	33	25	20	17	24	20	17	24	19	17	23	19	16	15
10	31	23	18	15	31	23	18	15	22	18	15	22	18	15	21	18	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2247	2247	2247
5°	2265	2265	2272
10°	2264	2285	2315
15°	2250	2302	2354
20°	2223	2309	2391
25°	2187	2312	2431
30°	2137	2315	2486
35°	2075	2313	2546
40°	2000	2316	2622
45°	1916	2319	2703
50°	1821	2327	2807
55°	1713	2338	2941
60°	1603	2347	3105
65°	1468	2341	3261
70°	1294	2304	3324
75°	1062	2125	2682
80°	772	1313	1448
85°	423	577	577



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	64.2	3.1	1.8	0°	670	670	670	670	670	
10°-20°	187.1	8.9	5.4	5°	673	673	673	674	675	64
20°-30°	288.0	13.7	8.3	15°	648	652	663	673	678	183
30°-40°	353.9	16.8	10.2	25°	591	602	625	647	657	272
40°-50°	377.1	17.9	10.8	35°	507	527	565	605	622	317
50°-60°	356.6	17.0	10.2	45°	404	432	489	547	570	311
60°-70°	292.1	13.9	8.4	55°	293	326	400	472	503	262
70°-80°	159.4	7.6	4.6	65°	185	215	295	378	411	183
80°-90°	22.6	1.1	0.7	75°	82	106	164	203	207	88
90°-100°	0.0	0.0	0.0	85°	11	13	15	16	15	16
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°	539.4	25.7	15.5							
0°-40°	893.2	42.5	25.7							
0°-60°	1626.9	77.4	46.7							
0°-90°	2101.0	100.0	60.4							
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°	2101.0	100.0	60.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670	670	670	670	670
2.5°	673	672	672	673	673
5°	673	673	673	674	675
7.5°	670	671	672	676	678
10°	665	666	671	677	680
12.5°	658	660	668	676	679
15°	648	652	663	673	678
17.5°	637	642	656	669	674
20°	623	631	647	663	670
22.5°	608	617	637	655	664
25°	591	602	625	647	657
27.5°	572	586	612	638	650
30°	552	568	598	628	642
32.5°	530	548	582	617	633
35°	507	527	565	605	622
37.5°	482	505	547	592	611
40°	457	481	529	578	599
42.5°	430	457	510	563	585
45°	404	432	489	547	570
47.5°	376	406	468	529	554
50°	349	380	446	511	538
52.5°	321	353	423	492	520
55°	293	326	400	472	503
57.5°	265	298	375	451	483
60°	239	271	350	429	463
62.5°	211	242	323	405	438
65°	185	215	295	378	411
67.5°	158	187	266	347	379
70°	132	160	235	311	339
72.5°	107	133	201	264	284
75°	82	106	164	203	207
77.5°	59	79	120	123	125
80°	40	53	68	73	75
82.5°	23	29	34	37	37
85°	11	13	15	16	15
87.5°	4	5	5	6	5
90°	0	0	0	0	0

(END OF REPORT)