

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: Fail-Safe

Report Number: CRT2007161432-001

Luminaire Tested: **22GLR-3GUV2-S33I-R1**

Test Date: 7/31/20

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-41-14
Report Number: CRT2007161432-001
The data set was measured in RADIOMETRIC UNITS. The following applies
Test Lab: Intertek Cortland
Test Date: 7/31/20
Issue Date: 7/31/20
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: Fail-Safe
Catalog Number: 22GLR-3GUV2-S33I-R1
Description: 2x2 GLR Louver Luminaire
Light Source: 3 Philips TUV F17T8 HG 2ft
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

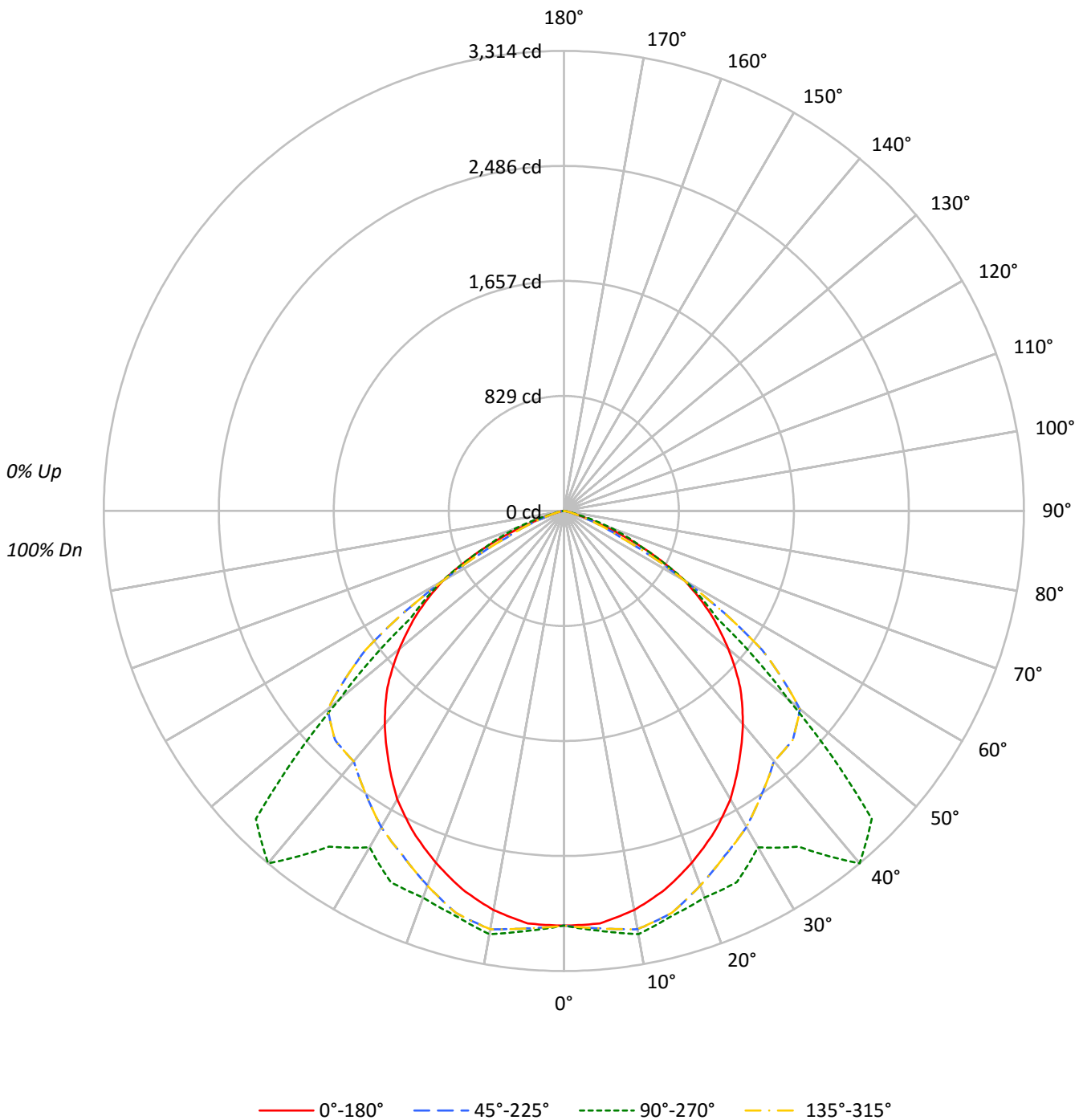
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7870.9 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.67 / 1.51
Luminous Opening: Rectangular (W 1.96' x L: 1.96' x H: 0')
CIE Type: Direct

Input Watts (W): 58.15
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	92	93	91	90	88
2	102	95	89	84	99	93	88	83	89	85	81	86	83	79	83	80	77	75
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8369	8369	8369	8369
5°	8387	8539	8387	8539
10°	8305	8806	8305	8806
15°	8186	8755	8186	8755
20°	8039	8838	8039	8838
25°	7905	9120	7905	9120
30°	7762	9053	7762	9053
35°	7532	10097	7532	10097
40°	7337	12122	7337	12122
45°	7121	12430	7121	12430
50°	6743	9202	6743	9202
55°	6297	6570	6297	6570
60°	5621	5699	5621	5699
65°	4197	4157	4197	4157
70°	2048	3056	2048	3056
75°	812	1180	812	1180
80°	452	484	452	484
85°	225	225	225	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	3.7
10°-20°	836.0	10.6
20°-30°	1272.3	16.2
30°-40°	1597.8	20.3
40°-50°	1812.7	23.0
50°-60°	1331.2	16.9
60°-70°	602.0	7.6
70°-80°	120.9	1.5
80°-90°	10.1	0.1
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°	2396.2	30.4
0°-40°	3994.0	50.7
0°-60°	7137.9	90.7
0°-90°	7870.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7870.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2987	2987	2987	2987	2987	
5°	2982	3036	2982	3036	2982	282
15°	2822	3018	2822	3018	2822	795
25°	2557	2950	2557	2950	2557	1178
35°	2202	2952	2202	2952	2202	1380
45°	1797	3137	1797	3137	1797	1380
55°	1289	1345	1289	1345	1289	1146
65°	633	627	633	627	633	621
75°	75	109	75	109	75	113
85°	7	7	7	7	7	11
90°	0	0	0	0	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2987	2987	2987	2987	2987	2987	2987	2987	2987	2987	2987
5°	2982	2989	3018	3033	3036	3033	3018	2989	2982	2989	3018
10°	2919	2966	3059	3092	3095	3092	3059	2966	2919	2966	3059
15°	2822	2915	2998	3008	3018	3008	2998	2915	2822	2915	2998
20°	2696	2860	2872	2925	2964	2925	2872	2860	2696	2860	2872
25°	2557	2673	2741	2891	2950	2891	2741	2673	2557	2673	2741
30°	2399	2505	2630	2737	2798	2737	2630	2505	2399	2505	2630
35°	2202	2323	2487	2710	2952	2710	2487	2323	2202	2323	2487
40°	2006	2120	2355	2921	3314	2921	2355	2120	2006	2120	2355
45°	1797	1934	2332	2954	3137	2954	2332	1934	1797	1934	2332
50°	1547	1747	2220	2310	2111	2310	2220	1747	1547	1747	2220
55°	1289	1484	1744	1343	1345	1343	1744	1484	1289	1484	1744
60°	1003	1135	1004	835	1017	835	1004	1135	1003	1135	1004
65°	633	705	452	561	627	561	452	705	633	705	452
70°	250	267	211	293	373	293	211	267	250	267	211
75°	75	68	74	94	109	94	74	68	75	68	74
80°	28	24	23	25	30	25	23	24	28	24	23
85°	7	6	6	5	7	5	6	6	7	6	6
90°	0	0	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2987	2987	2987	2987	2987	2987
5°	3033	3036	3033	3018	2989	2982
10°	3092	3095	3092	3059	2966	2919
15°	3008	3018	3008	2998	2915	2822
20°	2925	2964	2925	2872	2860	2696
25°	2891	2950	2891	2741	2673	2557
30°	2737	2798	2737	2630	2505	2399
35°	2710	2952	2710	2487	2323	2202
40°	2921	3314	2921	2355	2120	2006
45°	2954	3137	2954	2332	1934	1797
50°	2310	2111	2310	2220	1747	1547
55°	1343	1345	1343	1744	1484	1289
60°	835	1017	835	1004	1135	1003
65°	561	627	561	452	705	633
70°	293	373	293	211	267	250
75°	94	109	94	74	68	75
80°	25	30	25	23	24	28
85°	5	7	5	6	6	7
90°	0	0	0	0	0	0
95°	0	0	0	0	0	0
100°	0	0	0	0	0	0
105°	0	0	0	0	0	0
110°	0	0	0	0	0	0
115°	0	0	0	0	0	0
120°	0	0	0	0	0	0
125°	0	0	0	0	0	0
130°	0	0	0	0	0	0
135°	0	0	0	0	0	0
140°	0	0	0	0	0	0
145°	0	0	0	0	0	0
150°	0	0	0	0	0	0
155°	0	0	0	0	0	0
160°	0	0	0	0	0	0
165°	0	0	0	0	0	0
170°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

(END OF REPORT)