

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: FAILSAFE

Report Number: CRT2007161432-004 WG

Luminaire Tested: **GH-8-GUV4-N-R2-WG/HBL8-4FT-B**

Test Date: 8/12/20

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: CRT2007161432-004 WG  
The data set was measured in RADIOMETRIC UNITS. The following  
Test Lab: Intertek Cortland  
Test Date: 8/12/20  
Issue Date: 8/14/20  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAILSAFE  
Catalog Number: GH-8-GUV4-N-R2-WG/HBL8-4FT-B  
Description: GT High Bay Luminaire<sup>®</sup>  
Light Source: (8) Philips TUV 36W/G36 T8  
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

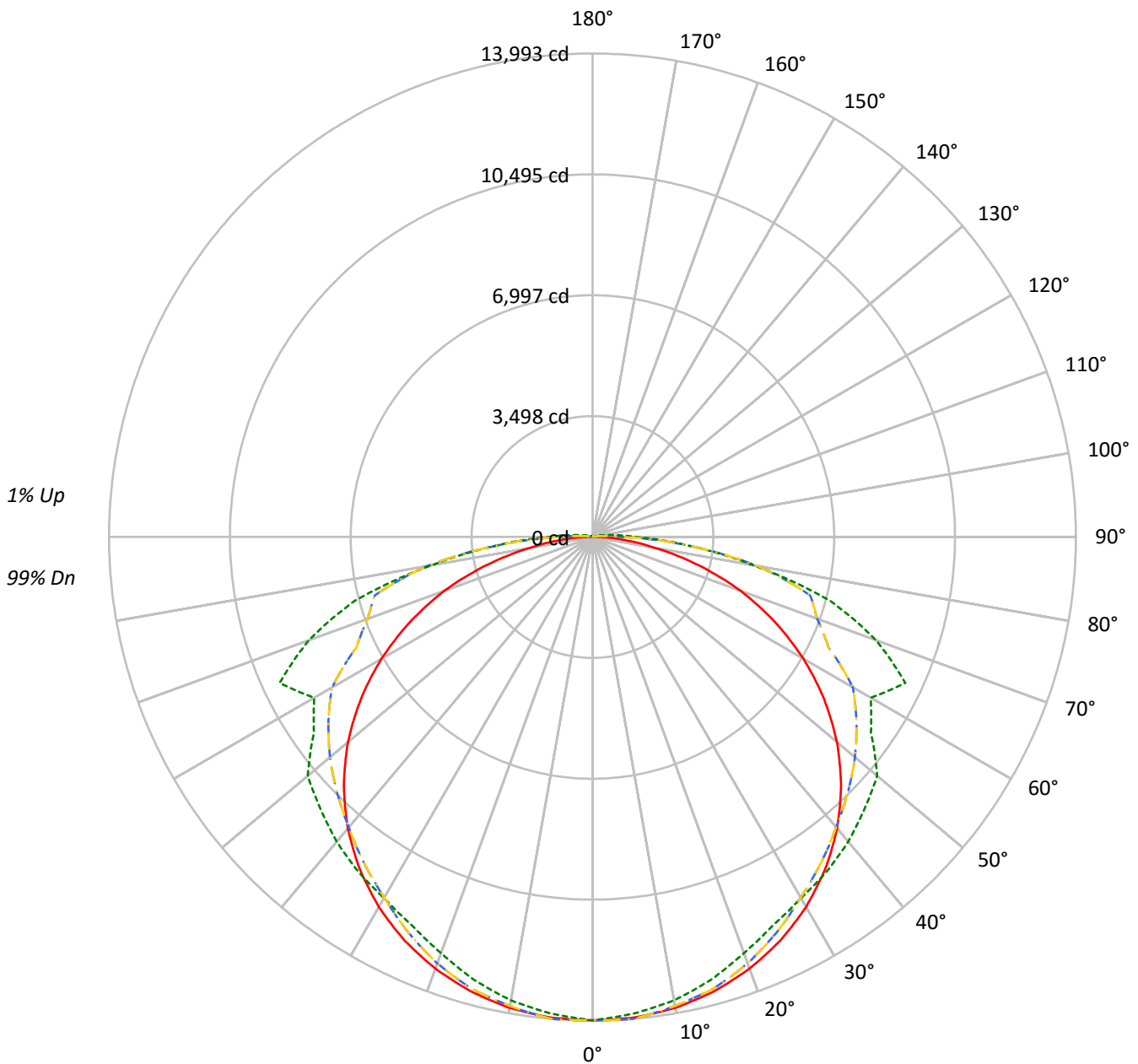
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51407.9 lumens  
Efficiency: N/A  
Efficacy: 210.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.31 / 1.46  
Luminous Opening: Rectangular (W 2.06' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 244.84  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



— 0°-180°    - - 45°-225°    ··· 90°-270°    - · 135°-315°



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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	110	110	110	105	105	105	101	101	101	99
1	106	100	95	90	103	98	93	89	93	89	86	89	86	83	85	82	80	78
2	95	85	78	71	92	83	76	70	80	73	68	76	71	66	73	68	65	62
3	86	74	65	57	83	72	64	57	69	62	56	66	60	54	63	58	53	51
4	78	65	55	48	76	63	54	47	61	53	46	58	51	46	56	50	45	42
5	72	57	48	40	69	56	47	40	54	46	40	52	45	39	50	43	38	36
6	66	51	42	35	64	50	41	35	48	40	34	47	39	34	45	38	33	31
7	61	46	37	31	59	46	37	30	44	36	30	42	35	30	41	34	29	27
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	37	31	26	24
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	34	28	23	22
10	49	36	27	22	48	35	27	22	34	27	22	33	26	21	32	26	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	18364	18364	18364	18364
5°	18395	18241	18395	18241
10°	18446	18152	18446	18152
15°	18502	18028	18502	18028
20°	18575	17907	18575	17907
25°	18661	17947	18661	17947
30°	18742	18295	18742	18295
35°	18821	18942	18821	18942
40°	18881	19731	18881	19731
45°	18895	20672	18895	20672
50°	18868	21969	18868	21969
55°	18735	22523	18735	22523
60°	18506	24419	18506	24419
65°	18108	31040	18108	31040
70°	17542	33541	17542	33541
75°	16217	36081	16217	36081
80°	14085	35905	14085	35905
85°	12804	41123	12804	41123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1325.7	2.6
10°-20°	3808.2	7.4
20°-30°	5835.0	11.4
30°-40°	7310.1	14.2
40°-50°	8146.7	15.8
50°-60°	8150.6	15.9
60°-70°	7583.7	14.8
70°-80°	5990.2	11.7
80°-90°	2644.0	5.1
90°-100°	424.5	0.8
100°-110°	100.4	0.2
110°-120°	40.2	0.1
120°-130°	30.2	0.1
130°-140°	14.0	0.0
140°-150°	4.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10968.9	21.3
0°-40°	18279.1	35.6
0°-60°	34576.4	67.3
0°-90°	50794.3	98.8
90°-120°	565.1	1.1
90°-150°	613.7	1.2
90°-180°	614.0	1.2
0°-180°	51407.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	13988	13988	13988	13988	13988	
5°	13958	13841	13958	13841	13958	###
15°	13613	13264	13613	13264	13613	3846
25°	12882	12389	12882	12389	12882	5940
35°	11743	11819	11743	11819	11743	7347
45°	10177	11134	10177	11134	10177	7847
55°	8185	9840	8185	9840	8185	7309
65°	5829	9992	5829	9992	5829	5764
75°	3197	7113	3197	7113	3197	3384
85°	850	2730	850	2730	850	919
90°	115	1237	115	1237	115	155
95°	53	610	53	610	53	51
105°	34	185	34	185	34	37
115°	29	43	29	43	29	29
125°	29	39	29	39	29	19
135°	0	42	0	42	0	0
145°	0	43	0	43	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



TEST NUMBER: CRT2007161432-004 WG  
 CATALOG NUMBER: GH-8-GUV4-N-R2-WG/HBL8-4FT-B

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	13988	13988	13988	13988	13988	13988	13988	13988	13988	13988	13988
5°	13958	13997	13993	13927	13841	13927	13993	13997	13958	13997	13993
10°	13837	13866	13780	13696	13616	13696	13780	13866	13837	13866	13780
15°	13613	13601	13530	13404	13264	13404	13530	13601	13613	13601	13530
20°	13295	13227	13133	12958	12817	12958	13133	13227	13295	13227	13133
25°	12882	12802	12624	12480	12389	12480	12624	12802	12882	12802	12624
30°	12363	12274	12051	12057	12068	12057	12051	12274	12363	12274	12051
35°	11743	11608	11525	11743	11819	11743	11525	11608	11743	11608	11525
40°	11017	10855	10973	11436	11513	11436	10973	10855	11017	10855	10973
45°	10177	10012	10455	11087	11134	11087	10455	10012	10177	10012	10455
50°	9238	9111	9919	10552	10756	10552	9919	9111	9238	9111	9919
55°	8185	8162	9330	9961	9840	9961	9330	8162	8185	8162	9330
60°	7048	7182	8706	8985	9300	8985	8706	7182	7048	7182	8706
65°	5829	6279	7535	9020	9992	9020	7535	6279	5829	6279	7535
70°	4570	5337	6921	8900	8738	8900	6921	5337	4570	5337	6921
75°	3197	4386	6524	7040	7113	7040	6524	4386	3197	4386	6524
80°	1863	3315	4860	5224	4749	5224	4860	3315	1863	3315	4860
85°	850	2112	2731	2896	2730	2896	2731	2112	850	2112	2731
90°	115	305	864	1217	1237	1217	864	305	115	305	864
95°	53	86	310	567	610	567	310	86	53	86	310
100°	41	48	128	234	269	234	128	48	41	48	128
105°	34	40	61	164	185	164	61	40	34	40	61
110°	31	36	41	65	86	65	41	36	31	36	41
115°	29	34	37	43	43	43	37	34	29	34	37
120°	28	33	39	40	40	40	39	33	28	33	39
125°	29	35	38	39	39	39	38	35	29	35	38
130°	0	0	37	42	42	42	37	0	0	0	37
135°	0	0	0	41	42	41	0	0	0	0	0
140°	0	0	0	42	42	42	0	0	0	0	0
145°	0	0	0	0	43	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



TEST NUMBER: CRT2007161432-004 WG  
 CATALOG NUMBER: GH-8-GUV4-N-R2-WG/HBL8-4FT-B

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	13988	13988	13988	13988	13988	13988
5°	13927	13841	13927	13993	13997	13958
10°	13696	13616	13696	13780	13866	13837
15°	13404	13264	13404	13530	13601	13613
20°	12958	12817	12958	13133	13227	13295
25°	12480	12389	12480	12624	12802	12882
30°	12057	12068	12057	12051	12274	12363
35°	11743	11819	11743	11525	11608	11743
40°	11436	11513	11436	10973	10855	11017
45°	11087	11134	11087	10455	10012	10177
50°	10552	10756	10552	9919	9111	9238
55°	9961	9840	9961	9330	8162	8185
60°	8985	9300	8985	8706	7182	7048
65°	9020	9992	9020	7535	6279	5829
70°	8900	8738	8900	6921	5337	4570
75°	7040	7113	7040	6524	4386	3197
80°	5224	4749	5224	4860	3315	1863
85°	2896	2730	2896	2731	2112	850
90°	1217	1237	1217	864	305	115
95°	567	610	567	310	86	53
100°	234	269	234	128	48	41
105°	164	185	164	61	40	34
110°	65	86	65	41	36	31
115°	43	43	43	37	34	29
120°	40	40	40	39	33	28
125°	39	39	39	38	35	29
130°	42	42	42	37	0	0
135°	41	42	41	0	0	0
140°	42	42	42	0	0	0
145°	0	43	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)