

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: CRT2007161432-007 WG

Luminaire Tested: **24GTR-WGD-4-GUV4-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: CRT2007161432-007 WG
The data set was measured in RADIOMETRIC UNITS. The following applies for
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: 24GTR-WGD-4-GUV4-R1
Description: Recessed Luminaire with Wire Guard
Light Source: 4 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

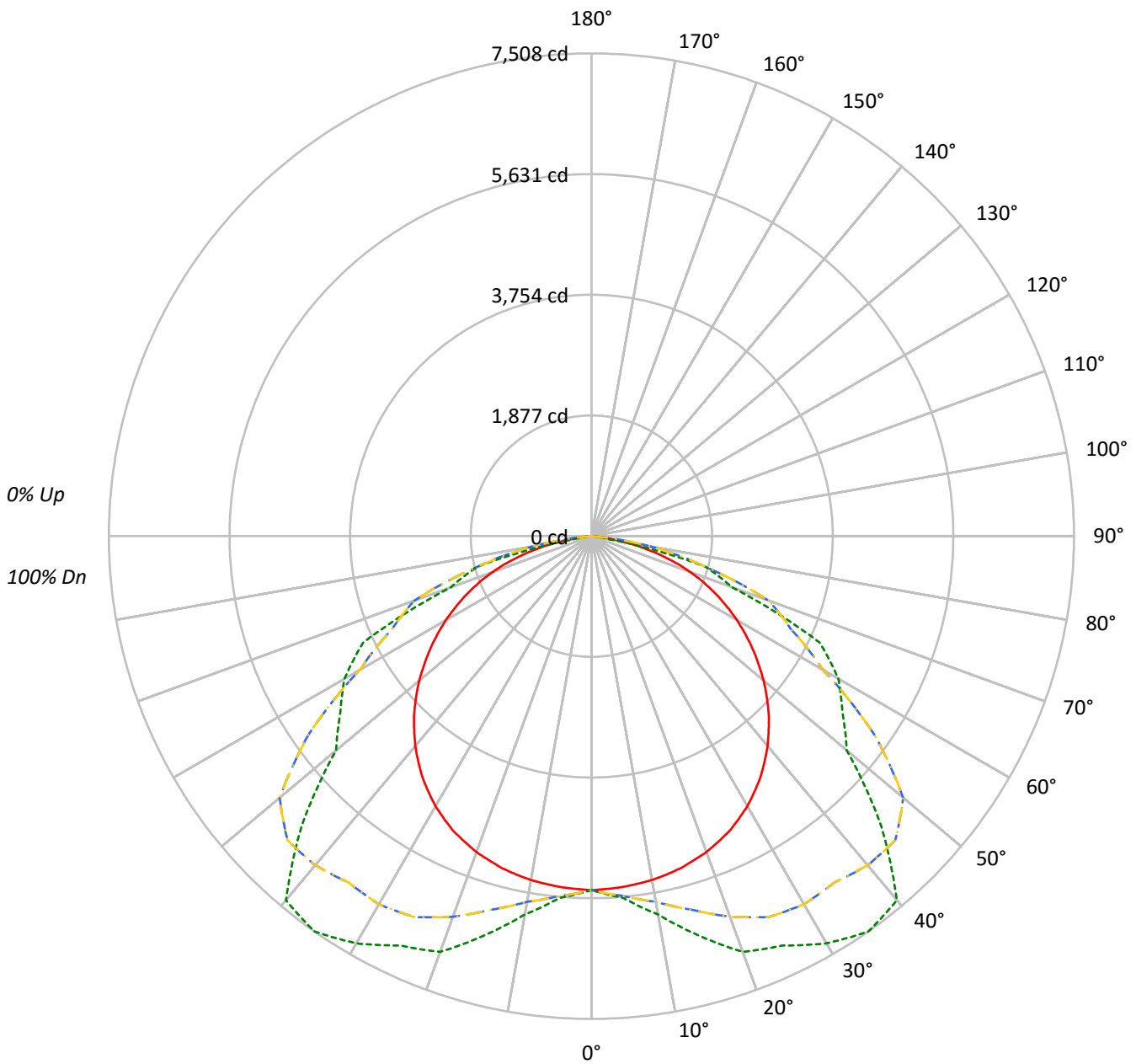
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23347.3 lumens
Efficiency: N/A
Efficacy: 183.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.83 / 1.81
Luminous Opening: Rectangular (W 1.96' x L: 3.96' x H: 0')
CIE Type: Direct

Input Watts (W): 127.17
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



— 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	111	111	111	106	106	106	102	102	102	100
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	60	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34
7	63	48	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	56	43	35	29	42	34	29	41	34	29	39	33	28	26
9	54	40	32	26	53	39	31	26	38	31	26	37	30	25	36	30	25	23
10	50	37	29	23	49	36	28	23	35	28	23	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7637	7637	7637	7637
5°	7626	7860	7626	7860
10°	7648	8415	7648	8415
15°	7680	9227	7680	9227
20°	7716	10154	7716	10154
25°	7753	10751	7753	10751
30°	7768	11711	7768	11711
35°	7759	12711	7759	12711
40°	7719	13384	7719	13384
45°	7649	12505	7649	12505
50°	7549	11189	7549	11189
55°	7408	11523	7408	11523
60°	7253	12301	7253	12301
65°	7036	12863	7036	12863
70°	6674	9440	6674	9440
75°	5857	9843	5857	9843
80°	4057	2196	4057	2196
85°	1273	764	1273	764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.9	2.3
10°-20°	1697.8	7.3
20°-30°	2909.2	12.5
30°-40°	3994.7	17.1
40°-50°	4558.6	19.5
50°-60°	4183.5	17.9
60°-70°	3416.1	14.6
70°-80°	1804.7	7.7
80°-90°	242.9	1.0
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°	5146.8	22.0
0°-40°	9141.5	39.2
0°-60°	17883.6	76.6
0°-90°	23347.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23347.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5507	5507	5507	5507	5507	
5°	5478	5646	5478	5646	5478	522
15°	5349	6427	5349	6427	5349	1511
25°	5067	7026	5067	7026	5067	2335
35°	4583	7508	4583	7508	4583	2865
45°	3900	6376	3900	6376	3900	3007
55°	3064	4766	3064	4766	3064	2740
65°	2144	3920	2144	3920	2144	2117
75°	1093	1837	1093	1837	1093	1144
85°	80	48	80	48	80	176
90°	0	0	0	0	0	11
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



TEST NUMBER: CRT2007161432-007 WG
 CATALOG NUMBER: 24GTR-WGD-4-GUV4-R1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	5507	5507	5507	5507	5507	5507	5507	5507	5507	5507	5507
5°	5478	5529	5617	5660	5646	5660	5617	5529	5478	5529	5617
10°	5431	5589	5776	6092	5976	6092	5776	5589	5431	5589	5776
15°	5349	5628	6014	6308	6427	6308	6014	5628	5349	5628	6014
20°	5228	5655	6297	6732	6880	6732	6297	5655	5228	5655	6297
25°	5067	5681	6535	6930	7026	6930	6535	5681	5067	5681	6535
30°	4851	5635	6612	7050	7313	7050	6612	5635	4851	5635	6612
35°	4583	5616	6579	7267	7508	7267	6579	5616	4583	5616	6579
40°	4264	5501	6683	7338	7393	7338	6683	5501	4264	5501	6683
45°	3900	5299	6687	6865	6376	6865	6687	5299	3900	5299	6687
50°	3499	4882	6333	5482	5186	5482	6333	4882	3499	4882	6333
55°	3064	4586	5368	4798	4766	4798	5368	4586	3064	4586	5368
60°	2615	4329	4163	4361	4435	4361	4163	4329	2615	4329	4163
65°	2144	3804	3426	3872	3920	3872	3426	3804	2144	3804	3426
70°	1646	2904	2933	2713	2328	2713	2933	2904	1646	2904	2933
75°	1093	1688	1825	2009	1837	2009	1825	1688	1093	1688	1825
80°	508	920	944	618	275	618	944	920	508	920	944
85°	80	174	55	57	48	57	55	174	80	174	55
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



TEST NUMBER: CRT2007161432-007 WG
 CATALOG NUMBER: 24GTR-WGD-4-GUV4-R1

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5507	5507	5507	5507	5507	5507
5°	5660	5646	5660	5617	5529	5478
10°	6092	5976	6092	5776	5589	5431
15°	6308	6427	6308	6014	5628	5349
20°	6732	6880	6732	6297	5655	5228
25°	6930	7026	6930	6535	5681	5067
30°	7050	7313	7050	6612	5635	4851
35°	7267	7508	7267	6579	5616	4583
40°	7338	7393	7338	6683	5501	4264
45°	6865	6376	6865	6687	5299	3900
50°	5482	5186	5482	6333	4882	3499
55°	4798	4766	4798	5368	4586	3064
60°	4361	4435	4361	4163	4329	2615
65°	3872	3920	3872	3426	3804	2144
70°	2713	2328	2713	2933	2904	1646
75°	2009	1837	2009	1825	1688	1093
80°	618	275	618	944	920	508
85°	57	48	57	55	174	80
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)