

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: CRT2007161432-008 WG

Luminaire Tested: **24GTR-WGD-6-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: CRT2007161432-008 WG
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: 24GTR-WGD-6-GUV4-R1
Description: GTR Recessed Luminaire with Wire Guard
Light Source: 6 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

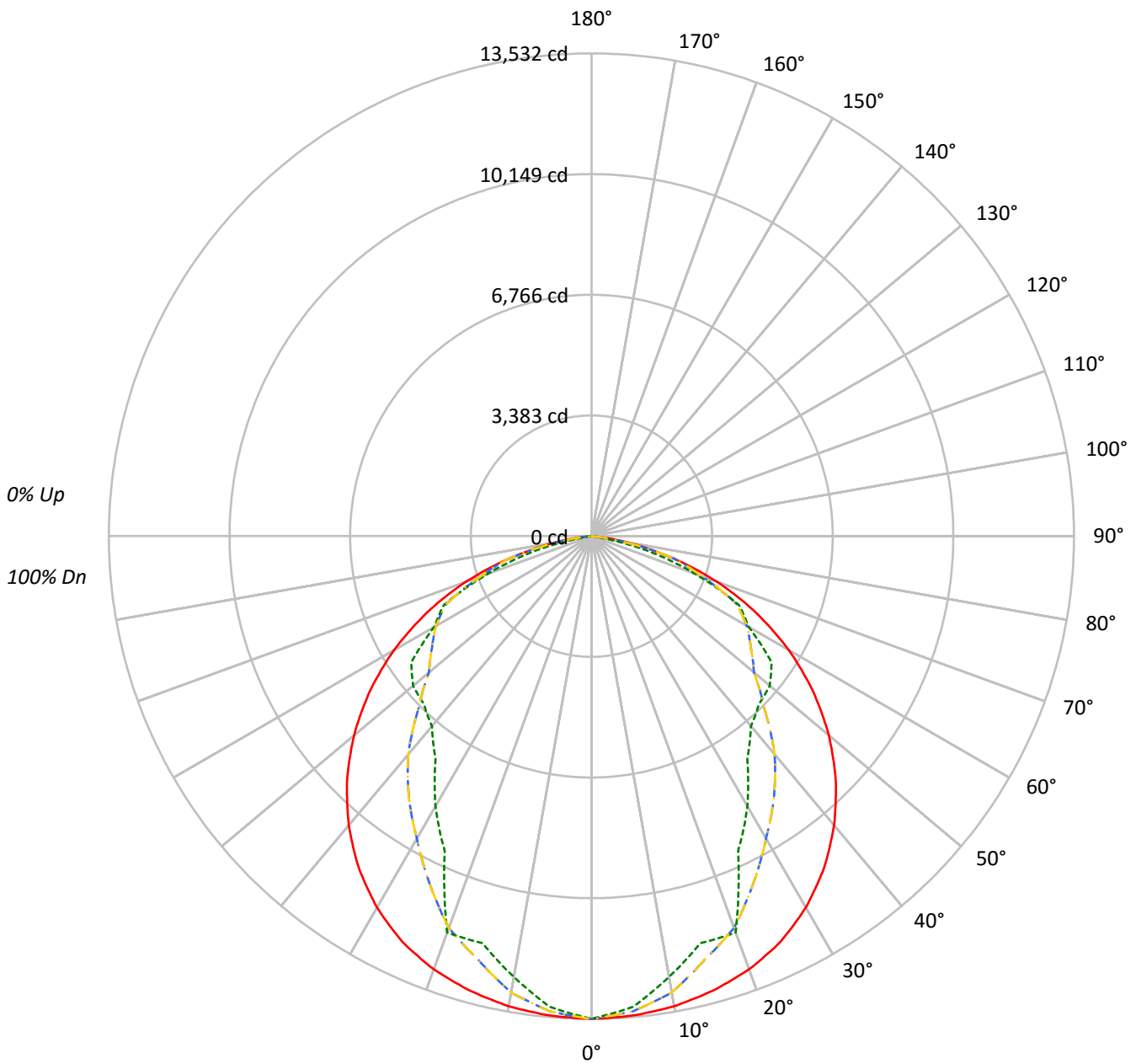
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33471.2 lumens
Efficiency: N/A
Efficacy: 183.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1 / 1.21
Luminous Opening: Rectangular (W 1.96' x L: 3.96' x H: 0')
CIE Type: Direct

Input Watts (W): 182.57
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

TEST NUMBER: CRT2007161432-008 WG
CATALOG NUMBER: 24GTR-WGD-6-GUV4-R1

Luminous Intensity Polar Plot



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



TEST NUMBER: CRT2007161432-008 WG
 CATALOG NUMBER: 24GTR-WGD-6-GUV4-R1

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18766	18766	18766	18766
5°	18775	18447	18775	18447
10°	18840	17666	18840	17666
15°	18932	16959	18932	16959
20°	19071	17453	19071	17453
25°	19202	14895	19202	14895
30°	19252	14010	19252	14010
35°	19248	12902	19248	12902
40°	19163	12595	19163	12595
45°	19005	13042	19005	13042
50°	18751	14086	18751	14086
55°	18344	14906	18344	14906
60°	17729	14115	17729	14115
65°	16755	14977	16755	14977
70°	15201	12541	15201	12541
75°	12361	9302	12361	9302
80°	7978	2492	7978	2492
85°	1591	557	1591	557



TEST NUMBER: CRT2007161432-008 WG
 CATALOG NUMBER: 24GTR-WGD-6-GUV4-R1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1263.7	3.8
10°-20°	3508.7	10.5
20°-30°	5045.8	15.1
30°-40°	5742.0	17.2
40°-50°	5782.9	17.3
50°-60°	5446.8	16.3
60°-70°	4258.4	12.7
70°-80°	2171.1	6.5
80°-90°	251.8	0.8
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°	9818.2	29.3
0°-40°	15560.2	46.5
0°-60°	26789.9	80.0
0°-90°	33471.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	33471.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	13532	13532	13532	13532	13532	
5°	13487	13251	13487	13251	13487	###
15°	13186	11812	13186	11812	13186	3727
25°	12549	9734	12549	9734	12549	5781
35°	11369	7621	11369	7621	11369	7107
45°	9690	6650	9690	6650	9690	7468
55°	7587	6165	7587	6165	7587	6771
65°	5106	4564	5106	4564	5106	5037
75°	2307	1736	2307	1736	2307	2468
85°	100	35	100	35	100	319
90°	0	0	0	0	0	14
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: CRT2007161432-008 WG
 CATALOG NUMBER: 24GTR-WGD-6-GUV4-R1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	13532	13532	13532	13532	13532	13532	13532	13532	13532	13532	13532
5°	13487	13413	13368	13311	13251	13311	13368	13413	13487	13413	13368
10°	13379	13250	12988	12688	12545	12688	12988	13250	13379	13250	12988
15°	13186	12937	12289	11976	11812	11976	12289	12937	13186	12937	12289
20°	12922	12430	11688	10980	11826	10980	11688	12430	12922	12430	11688
25°	12549	11778	10741	9988	9734	9988	10741	11778	12549	11778	10741
30°	12022	11058	9791	9086	8749	9086	9791	11058	12022	11058	9791
35°	11369	10263	8928	7969	7621	7969	8928	10263	11369	10263	8928
40°	10585	9232	7992	7073	6957	7073	7992	9232	10585	9232	7992
45°	9690	8144	6865	6646	6650	6646	6865	8144	9690	8144	6865
50°	8691	7112	5951	6348	6529	6348	5951	7112	8691	7112	5951
55°	7587	6071	5459	6223	6165	6223	5459	6071	7587	6071	5459
60°	6392	4944	5031	5327	5089	5327	5031	4944	6392	4944	5031
65°	5106	3691	4482	4390	4564	4390	4482	3691	5106	3691	4482
70°	3749	2684	3299	3563	3093	3563	3299	2684	3749	2684	3299
75°	2307	1895	2365	2169	1736	2169	2365	1895	2307	1895	2365
80°	999	1085	866	477	312	477	866	1085	999	1085	866
85°	100	155	47	41	35	41	47	155	100	155	47
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: CRT2007161432-008 WG
 CATALOG NUMBER: 24GTR-WGD-6-GUV4-R1

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	13532	13532	13532	13532	13532	13532
5°	13311	13251	13311	13368	13413	13487
10°	12688	12545	12688	12988	13250	13379
15°	11976	11812	11976	12289	12937	13186
20°	10980	11826	10980	11688	12430	12922
25°	9988	9734	9988	10741	11778	12549
30°	9086	8749	9086	9791	11058	12022
35°	7969	7621	7969	8928	10263	11369
40°	7073	6957	7073	7992	9232	10585
45°	6646	6650	6646	6865	8144	9690
50°	6348	6529	6348	5951	7112	8691
55°	6223	6165	6223	5459	6071	7587
60°	5327	5089	5327	5031	4944	6392
65°	4390	4564	4390	4482	3691	5106
70°	3563	3093	3563	3299	2684	3749
75°	2169	1736	2169	2365	1895	2307
80°	477	312	477	866	1085	999
85°	41	35	41	47	155	100
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)