

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: CRT2007161432-006

Luminaire Tested: **24GLR-3GUV4-S36I-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: CRT2007161432-006  
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: 24GLR-3GUV4-S36I-R1 ☐  
Description: 2x4 GLR Louver Luminaire  
Light Source: (3) 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

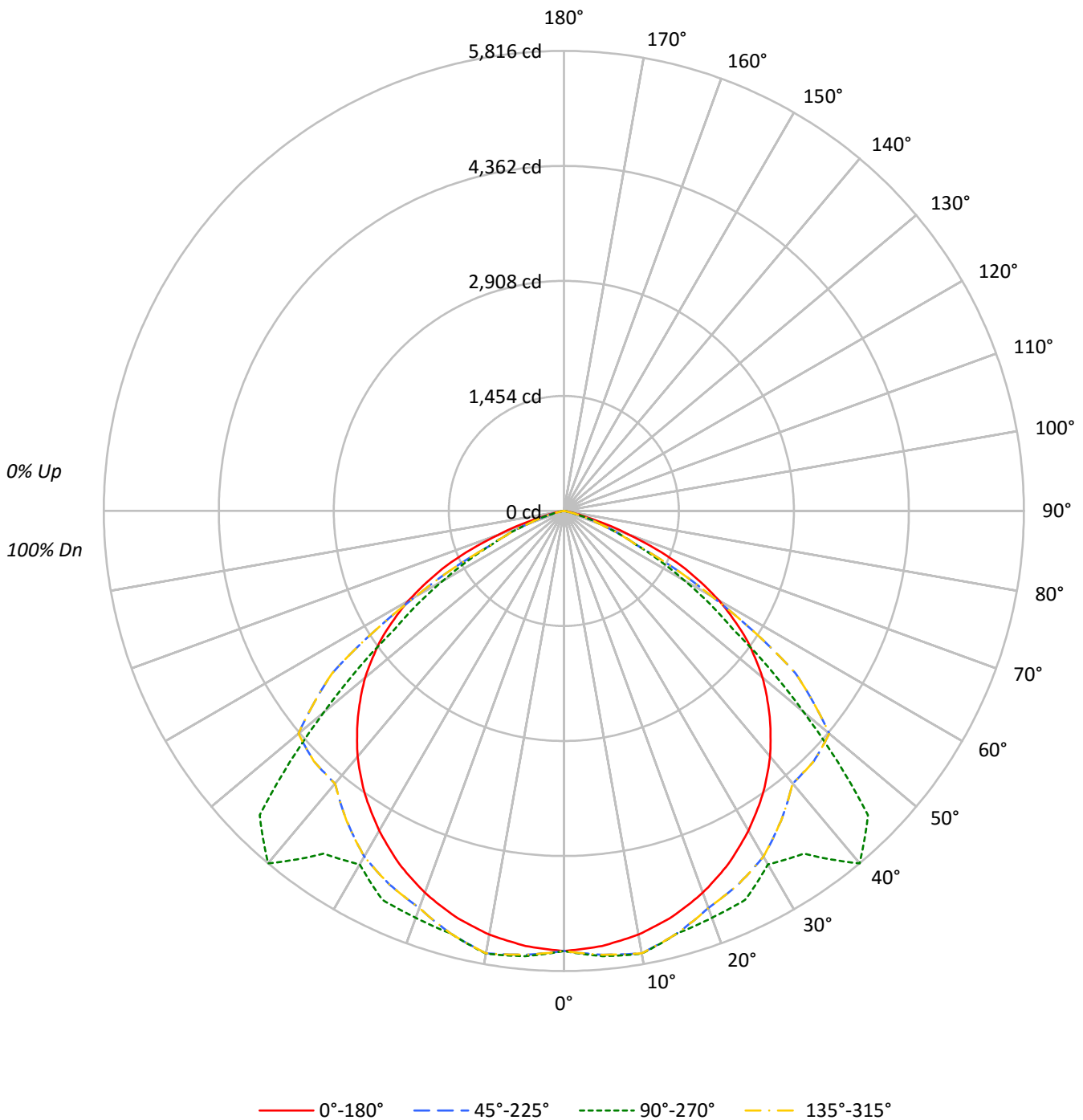
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15309.0 lumens  
Efficiency: N/A  
Efficacy: 168.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.53 / 1.54  
Luminous Opening: Rectangular (W 1.98' x L: 3.98' x H: 0')  
CIE Type: Direct

Input Watts (W): 90.94  
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

TEST NUMBER: CRT2007161432-006  
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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	104	101	98	100	97	95	96	94	92	93	91	89	87
2	102	94	88	83	99	92	87	82	89	84	80	86	82	79	83	80	77	75
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	85	74	66	60	83	73	65	59	71	64	59	68	63	58	66	61	57	55
5	79	66	58	52	77	65	57	51	63	56	51	61	55	50	60	54	50	48
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	67	54	46	40	66	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33
9	58	45	37	32	57	45	37	32	44	36	32	42	36	31	41	36	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27

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

	0°	90°	180°	270°
0°	7599	7599	7599	7599
5°	7569	7747	7569	7747
10°	7541	7881	7541	7881
15°	7506	7820	7506	7820
20°	7466	7955	7466	7955
25°	7420	8176	7420	8176
30°	7359	8137	7359	8137
35°	7305	8819	7305	8819
40°	7234	10370	7234	10370
45°	7111	10503	7111	10503
50°	6970	8406	6970	8406
55°	6704	6232	6704	6232
60°	6193	4824	6193	4824
65°	5301	3258	5301	3258
70°	3530	2029	3530	2029
75°	1319	823	1319	823
80°	503	362	503	362
85°	219	141	219	141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	535.4	3.5
10°-20°	1553.0	10.1
20°-30°	2396.4	15.7
30°-40°	3035.4	19.8
40°-50°	3462.4	22.6
50°-60°	2707.8	17.7
60°-70°	1323.4	8.6
70°-80°	276.6	1.8
80°-90°	18.8	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°	4484.7	29.3
0°-40°	7520.2	49.1
0°-60°	13690.3	89.4
0°-90°	15309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15309.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5563	5563	5563	5563	5563	
5°	5520	5650	5520	5650	5520	524
15°	5308	5530	5308	5530	5308	1498
25°	4923	5425	4923	5425	4923	2268
35°	4381	5289	4381	5289	4381	2740
45°	3681	5437	3681	5437	3681	2839
55°	2815	2617	2815	2617	2815	2500
65°	1640	1008	1640	1008	1640	1589
75°	250	156	250	156	250	380
85°	14	9	14	9	14	24
90°	0	0	0	0	0	2
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: CRT2007161432-006  
 CATALOG NUMBER: 24GLR-3GUV4-S36I-R1

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	5563	5563	5563	5563	5563	5563	5563	5563	5563	5563	5563
5°	5520	5567	5631	5659	5650	5659	5631	5567	5520	5567	5631
10°	5437	5554	5677	5694	5682	5694	5677	5554	5437	5554	5677
15°	5308	5488	5529	5519	5530	5519	5529	5488	5308	5488	5529
20°	5136	5336	5342	5451	5473	5451	5342	5336	5136	5336	5342
25°	4923	5083	5211	5379	5425	5379	5211	5083	4923	5083	5211
30°	4666	4797	5045	5102	5159	5102	5045	4797	4666	4797	5045
35°	4381	4554	4785	5015	5289	5015	4785	4554	4381	4554	4785
40°	4057	4277	4499	5410	5816	5410	4499	4277	4057	4277	4499
45°	3681	3948	4470	5403	5437	5403	4470	3948	3681	3948	4470
50°	3280	3597	4380	4200	3956	4200	4380	3597	3280	3597	4380
55°	2815	3144	3575	2687	2617	2687	3575	3144	2815	3144	3575
60°	2267	2565	2163	1731	1766	1731	2163	2565	2267	2565	2163
65°	1640	1817	1010	1073	1008	1073	1010	1817	1640	1817	1010
70°	884	847	496	490	508	490	496	847	884	847	496
75°	250	208	174	160	156	160	174	208	250	208	174
80°	64	49	43	44	46	44	43	49	64	49	43
85°	14	12	10	9	9	9	10	12	14	12	10
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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 CATALOG NUMBER: 24GLR-3GUV4-S36I-R1

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5563	5563	5563	5563	5563	5563
5°	5659	5650	5659	5631	5567	5520
10°	5694	5682	5694	5677	5554	5437
15°	5519	5530	5519	5529	5488	5308
20°	5451	5473	5451	5342	5336	5136
25°	5379	5425	5379	5211	5083	4923
30°	5102	5159	5102	5045	4797	4666
35°	5015	5289	5015	4785	4554	4381
40°	5410	5816	5410	4499	4277	4057
45°	5403	5437	5403	4470	3948	3681
50°	4200	3956	4200	4380	3597	3280
55°	2687	2617	2687	3575	3144	2815
60°	1731	1766	1731	2163	2565	2267
65°	1073	1008	1073	1010	1817	1640
70°	490	508	490	496	847	884
75°	160	156	160	174	208	250
80°	44	46	44	43	49	64
85°	9	9	9	10	12	14
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)