

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: CRT2007161432-015-001 WG

Luminaire Tested: **GSL-2GUV4-R1-WG/SNF-4FT**

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: CRT2007161432-015-001 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: GSL-2GUV4-R1-WG/SNF-4FT
Description: GSL Strip Luminaire
Light Source: 2 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

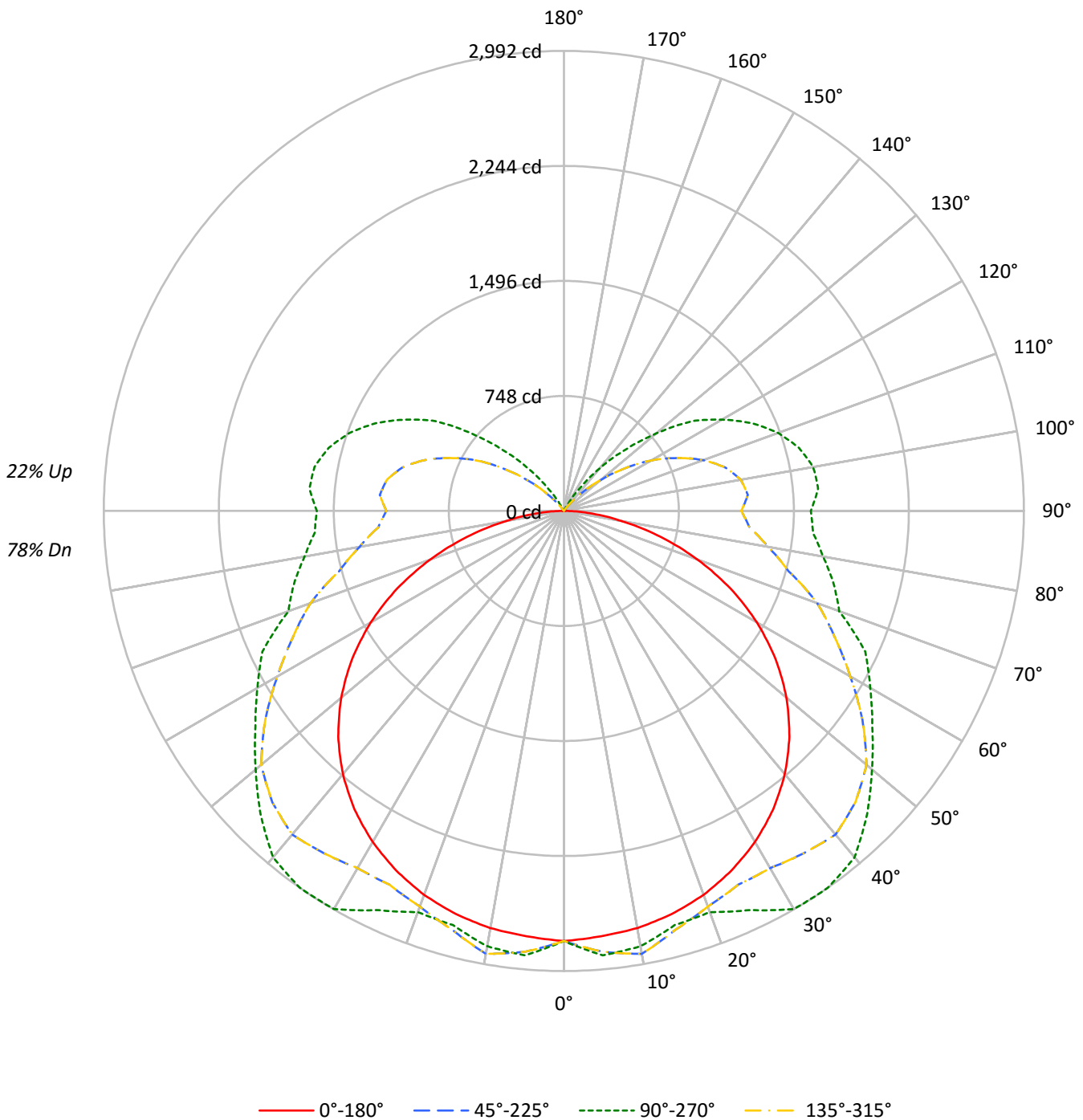
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15968.3 lumens
Efficiency: N/A
Efficacy: 260.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.61 / 1.67
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 61.23
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





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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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78
1	101	95	89	84	96	90	85	81	82	78	74	74	71	68	67	65	62	59
2	90	81	73	66	85	77	70	64	70	64	59	63	58	54	57	53	50	46
3	81	70	61	53	77	66	58	51	60	53	48	55	49	44	49	45	41	38
4	74	61	51	44	70	58	49	43	53	46	40	48	42	37	43	38	34	31
5	68	54	44	37	64	51	43	36	47	39	34	43	36	31	39	33	29	26
6	62	48	39	32	59	46	37	31	42	35	29	38	32	27	35	29	25	23
7	57	43	34	28	54	41	33	27	38	31	25	35	28	24	31	26	22	20
8	53	39	30	24	50	38	29	24	34	27	22	32	25	21	29	23	19	17
9	50	36	27	22	47	34	26	21	32	25	20	29	23	19	26	21	17	15
10	46	33	25	19	44	32	24	19	29	22	18	27	21	17	25	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	30107	30107	30107	30107
5°	29995	31345	29995	31345
10°	30101	31413	30101	31413
15°	30244	31068	30244	31068
20°	30435	31798	30435	31798
25°	30642	34015	30642	34015
30°	30899	37163	30899	37163
35°	31169	39316	31169	39316
40°	31405	41325	31405	41325
45°	31587	42455	31587	42455
50°	31649	43807	31649	43807
55°	31565	45959	31565	45959
60°	31194	49536	31194	49536
65°	30487	55091	30487	55091
70°	29143	59985	29143	59985
75°	27074	75525	27074	75525
80°	24051	106122	24051	106122
85°	20625	200814	20625	200814



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	1.7
10°-20°	795.5	5.0
20°-30°	1263.8	7.9
30°-40°	1689.1	10.6
40°-50°	1952.5	12.2
50°-60°	1997.9	12.5
60°-70°	1837.9	11.5
70°-80°	1500.9	9.4
80°-90°	1195.8	7.5
90°-100°	1113.0	7.0
100°-110°	988.7	6.2
110°-120°	719.4	4.5
120°-130°	421.3	2.6
130°-140°	179.9	1.1
140°-150°	38.3	0.2
150°-160°	1.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2332.2	14.6
0°-40°	4021.3	25.2
0°-60°	7971.7	49.9
0°-90°	12506.3	78.3
90°-120°	2821.2	17.7
90°-150°	3460.6	21.7
90°-180°	3462.0	21.7
0°-180°	15968.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2797	2797	2797	2797	2797	
5°	2776	2901	2776	2901	2776	264
15°	2714	2788	2714	2788	2714	767
25°	2580	2864	2580	2864	2580	1190
35°	2372	2992	2372	2992	2372	1484
45°	2075	2789	2075	2789	2075	1599
55°	1682	2449	1682	2449	1682	1500
65°	1197	2163	1197	2163	1197	1181
75°	651	1816	651	1816	651	690
85°	167	1626	167	1626	167	187
90°	23	1607	23	1607	23	31
95°	10	1660	10	1660	10	9
105°	0	1583	0	1583	0	1
115°	0	1350	0	1350	0	0
125°	0	1019	0	1019	0	0
135°	0	559	0	559	0	0
145°	0	178	0	178	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°	2797	2797	2797	2797	2797	2797	2797	2797	2797	2797	2797
5°	2776	2820	2877	2911	2901	2911	2877	2820	2776	2820	2877
10°	2754	2852	2925	2907	2874	2907	2925	2852	2754	2852	2925
15°	2714	2860	2817	2803	2788	2803	2817	2860	2714	2860	2817
20°	2657	2802	2738	2765	2776	2765	2738	2802	2657	2802	2738
25°	2580	2674	2682	2815	2864	2815	2682	2674	2580	2674	2682
30°	2486	2551	2682	2920	2990	2920	2682	2551	2486	2551	2682
35°	2372	2437	2718	2953	2992	2953	2718	2437	2372	2437	2718
40°	2235	2318	2748	2915	2941	2915	2748	2318	2235	2318	2748
45°	2075	2222	2680	2786	2789	2786	2680	2222	2075	2222	2680
50°	1890	2143	2569	2609	2616	2609	2569	2143	1890	2143	2569
55°	1682	2067	2371	2426	2449	2426	2371	2067	1682	2067	2371
60°	1449	1953	2151	2260	2301	2260	2151	1953	1449	1953	2151
65°	1197	1712	1944	2108	2163	2108	1944	1712	1197	1712	1944
70°	926	1444	1754	1919	1906	1919	1754	1444	926	1444	1754
75°	651	1156	1513	1722	1816	1722	1513	1156	651	1156	1513
80°	388	908	1349	1629	1712	1629	1349	908	388	908	1349
85°	167	670	1211	1519	1626	1519	1211	670	167	670	1211
90°	23	547	1154	1494	1607	1494	1154	547	23	547	1154
95°	10	562	1201	1546	1660	1546	1201	562	10	562	1201
100°	5	502	1169	1527	1647	1527	1169	502	5	502	1169
105°	0	428	1089	1461	1583	1461	1089	428	0	428	1089
110°	0	315	967	1359	1483	1359	967	315	0	315	967
115°	0	194	815	1220	1350	1220	815	194	0	194	815
120°	0	83	658	1051	1188	1051	658	83	0	83	658
125°	0	27	482	851	1019	851	482	27	0	27	482
130°	0	0	317	649	783	649	317	0	0	0	317
135°	0	0	170	452	559	452	170	0	0	0	170
140°	0	0	62	276	362	276	62	0	0	0	62
145°	0	0	0	102	178	102	0	0	0	0	0
150°	0	0	0	16	57	16	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°	2797	2797	2797	2797	2797	2797
5°	2911	2901	2911	2877	2820	2776
10°	2907	2874	2907	2925	2852	2754
15°	2803	2788	2803	2817	2860	2714
20°	2765	2776	2765	2738	2802	2657
25°	2815	2864	2815	2682	2674	2580
30°	2920	2990	2920	2682	2551	2486
35°	2953	2992	2953	2718	2437	2372
40°	2915	2941	2915	2748	2318	2235
45°	2786	2789	2786	2680	2222	2075
50°	2609	2616	2609	2569	2143	1890
55°	2426	2449	2426	2371	2067	1682
60°	2260	2301	2260	2151	1953	1449
65°	2108	2163	2108	1944	1712	1197
70°	1919	1906	1919	1754	1444	926
75°	1722	1816	1722	1513	1156	651
80°	1629	1712	1629	1349	908	388
85°	1519	1626	1519	1211	670	167
90°	1494	1607	1494	1154	547	23
95°	1546	1660	1546	1201	562	10
100°	1527	1647	1527	1169	502	5
105°	1461	1583	1461	1089	428	0
110°	1359	1483	1359	967	315	0
115°	1220	1350	1220	815	194	0
120°	1051	1188	1051	658	83	0
125°	851	1019	851	482	27	0
130°	649	783	649	317	0	0
135°	452	559	452	170	0	0
140°	276	362	276	62	0	0
145°	102	178	102	0	0	0
150°	16	57	16	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)