

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: CRT2007161432-016-001

Luminaire Tested: **GSL-1GUV4-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: CRT2007161432-016-001
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-1GUV4-R1
Description: GSL Strip Luminaire
Light Source: 1 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

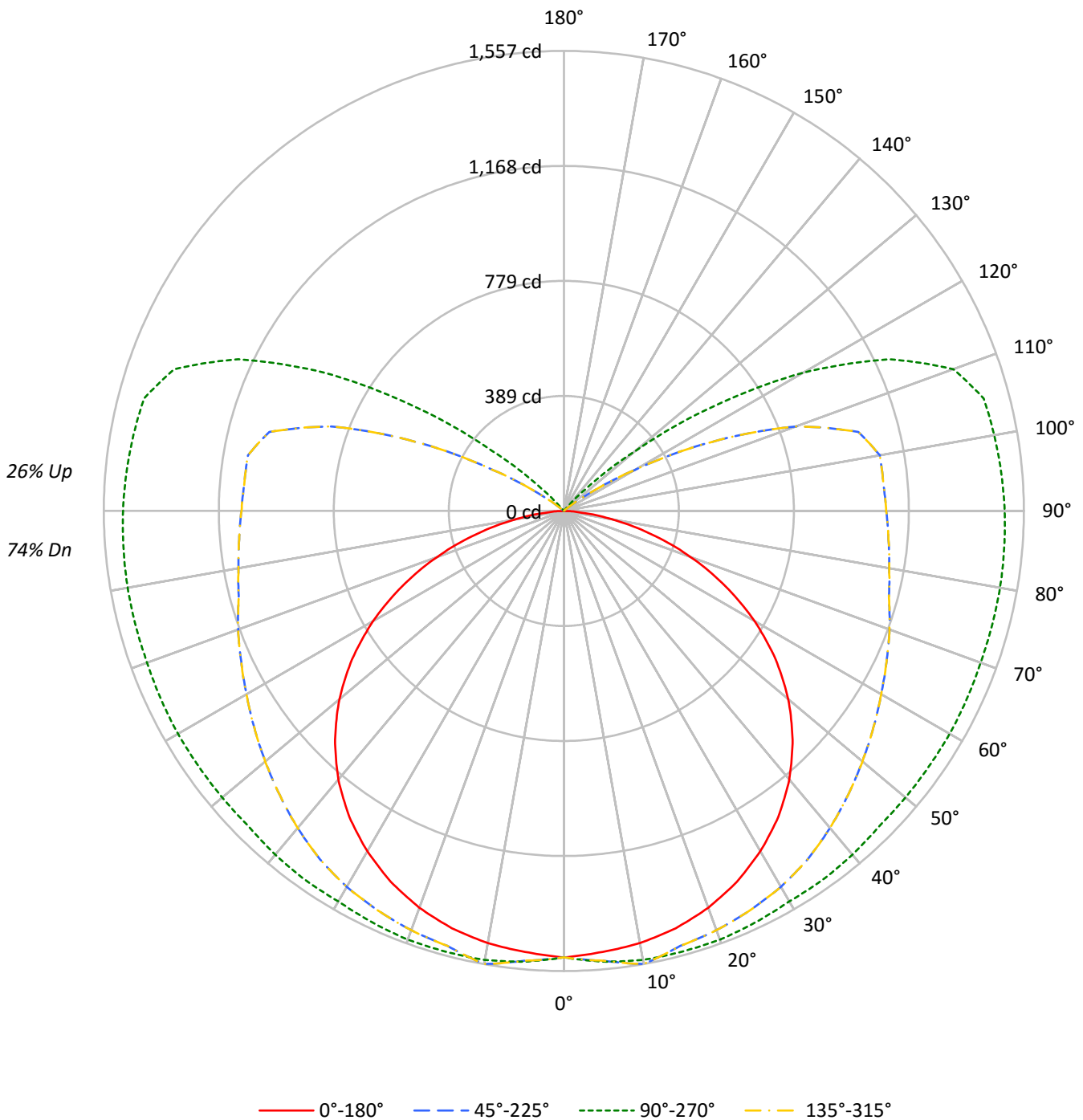
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10242.1 lumens
Efficiency: N/A
Efficacy: 310.7 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.54 / 1.63
Luminous Opening: Rectangular (W 0.23' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 32.96
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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CATALOG NUMBER: GSL-1GUV4-R1

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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	98	92	86	81	93	87	82	77	78	73	70	69	66	63	61	59	56	52
2	88	78	69	62	82	73	66	59	65	59	54	58	53	49	51	48	44	40
3	79	67	57	50	74	63	55	48	56	49	44	50	44	40	44	40	36	32
4	72	58	49	41	67	55	46	39	49	42	36	44	38	33	39	34	30	26
5	66	52	42	35	61	49	40	33	44	36	30	39	33	28	34	29	25	22
6	60	46	36	30	57	44	35	28	39	32	26	35	29	24	31	26	22	19
7	56	41	32	26	52	39	31	25	35	28	23	32	25	21	28	23	19	16
8	52	38	29	23	49	36	27	22	32	25	20	29	23	18	26	21	17	14
9	48	34	26	20	45	33	25	19	29	23	18	27	21	16	24	19	15	13
10	45	31	23	18	42	30	22	17	27	21	16	25	19	15	22	17	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17679	17679	17679	17679
5°	17593	17981	17593	17981
10°	17642	18331	17642	18331
15°	17709	18702	17709	18702
20°	17792	19224	17792	19224
25°	17880	19829	17880	19829
30°	17968	20616	17968	20616
35°	18068	21781	18068	21781
40°	18129	23200	18129	23200
45°	18118	24968	18118	24968
50°	18056	27467	18056	27467
55°	17848	30760	17848	30760
60°	17433	35287	17433	35287
65°	16749	41665	16749	41665
70°	15667	51347	15667	51347
75°	14014	67807	14014	67807
80°	11387	100998	11387	100998
85°	7115	200825	7115	200825



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	1.4
10°-20°	430.3	4.2
20°-30°	684.5	6.7
30°-40°	890.6	8.7
40°-50°	1034.2	10.1
50°-60°	1111.6	10.9
60°-70°	1125.4	11.0
70°-80°	1092.0	10.7
80°-90°	1047.2	10.2
90°-100°	1018.3	9.9
100°-110°	884.8	8.6
110°-120°	549.5	5.4
120°-130°	201.2	2.0
130°-140°	26.6	0.3
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°	1260.9	12.3
0°-40°	2151.5	21.0
0°-60°	4297.3	42.0
0°-90°	7561.9	73.8
90°-120°	2452.5	23.9
90°-150°	2680.3	26.2
90°-180°	2680.0	26.2
0°-180°	10242.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1511	1511	1511	1511	1511	
5°	1498	1531	1498	1531	1498	143
15°	1462	1544	1462	1544	1462	413
25°	1385	1536	1385	1536	1385	639
35°	1265	1525	1265	1525	1265	791
45°	1095	1509	1095	1509	1095	844
55°	875	1508	875	1508	875	780
65°	605	1505	605	1505	605	597
75°	310	1500	310	1500	310	329
85°	53	1496	53	1496	53	71
90°	0	1492	0	1492	0	7
95°	0	1486	0	1486	0	0
105°	0	1471	0	1471	0	0
115°	0	1215	0	1215	0	0
125°	0	615	0	615	0	0
135°	0	103	0	103	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1511	1511	1511	1511	1511	1511	1511	1511	1511	1511	1511
5°	1498	1519	1528	1536	1531	1536	1528	1519	1498	1519	1528
10°	1485	1556	1557	1545	1543	1545	1557	1556	1485	1556	1557
15°	1462	1497	1524	1543	1544	1543	1524	1497	1462	1497	1524
20°	1429	1474	1510	1540	1544	1540	1510	1474	1429	1474	1510
25°	1385	1440	1491	1536	1536	1536	1491	1440	1385	1440	1491
30°	1330	1394	1469	1524	1526	1524	1469	1394	1330	1394	1469
35°	1265	1341	1439	1507	1525	1507	1439	1341	1265	1341	1439
40°	1187	1278	1401	1491	1519	1491	1401	1278	1187	1278	1401
45°	1095	1209	1360	1477	1509	1477	1360	1209	1095	1209	1360
50°	992	1129	1319	1464	1509	1464	1319	1129	992	1129	1319
55°	875	1039	1279	1452	1508	1452	1279	1039	875	1039	1279
60°	745	941	1240	1444	1508	1444	1240	941	745	941	1240
65°	605	843	1205	1434	1505	1434	1205	843	605	843	1205
70°	458	748	1173	1423	1501	1423	1173	748	458	748	1173
75°	310	663	1139	1414	1500	1414	1139	663	310	663	1139
80°	169	592	1118	1410	1499	1410	1118	592	169	592	1118
85°	53	542	1103	1404	1496	1404	1103	542	53	542	1103
90°	0	522	1091	1398	1492	1398	1091	522	0	522	1091
95°	0	526	1085	1391	1486	1391	1085	526	0	526	1085
100°	0	475	1086	1385	1479	1385	1086	475	0	475	1086
105°	0	258	1032	1377	1471	1377	1032	258	0	258	1032
110°	0	68	836	1276	1403	1276	836	68	0	68	836
115°	0	0	553	1058	1215	1058	553	0	0	0	553
120°	0	0	278	764	937	764	278	0	0	0	278
125°	0	0	87	449	615	449	87	0	0	0	87
130°	0	0	0	197	315	197	0	0	0	0	0
135°	0	0	0	38	103	38	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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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1511	1511	1511	1511	1511	1511
5°	1536	1531	1536	1528	1519	1498
10°	1545	1543	1545	1557	1556	1485
15°	1543	1544	1543	1524	1497	1462
20°	1540	1544	1540	1510	1474	1429
25°	1536	1536	1536	1491	1440	1385
30°	1524	1526	1524	1469	1394	1330
35°	1507	1525	1507	1439	1341	1265
40°	1491	1519	1491	1401	1278	1187
45°	1477	1509	1477	1360	1209	1095
50°	1464	1509	1464	1319	1129	992
55°	1452	1508	1452	1279	1039	875
60°	1444	1508	1444	1240	941	745
65°	1434	1505	1434	1205	843	605
70°	1423	1501	1423	1173	748	458
75°	1414	1500	1414	1139	663	310
80°	1410	1499	1410	1118	592	169
85°	1404	1496	1404	1103	542	53
90°	1398	1492	1398	1091	522	0
95°	1391	1486	1391	1085	526	0
100°	1385	1479	1385	1086	475	0
105°	1377	1471	1377	1032	258	0
110°	1276	1403	1276	836	68	0
115°	1058	1215	1058	553	0	0
120°	764	937	764	278	0	0
125°	449	615	449	87	0	0
130°	197	315	197	0	0	0
135°	38	103	38	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)