

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P588676

Luminaire Tested: **22CGTS-NUV-HI-4000K**

Issue Date: 12/3/2021

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-79-08
Report Number: P588676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LCS210329025BSA)
Test Lab:
Issue Date: 12/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CGTS-NUV-HI-4000K
Description: 2X2 CGT SELECT TROFFER AT HI LUMEN OUTPUT AND 4000K COLOR SETTING

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

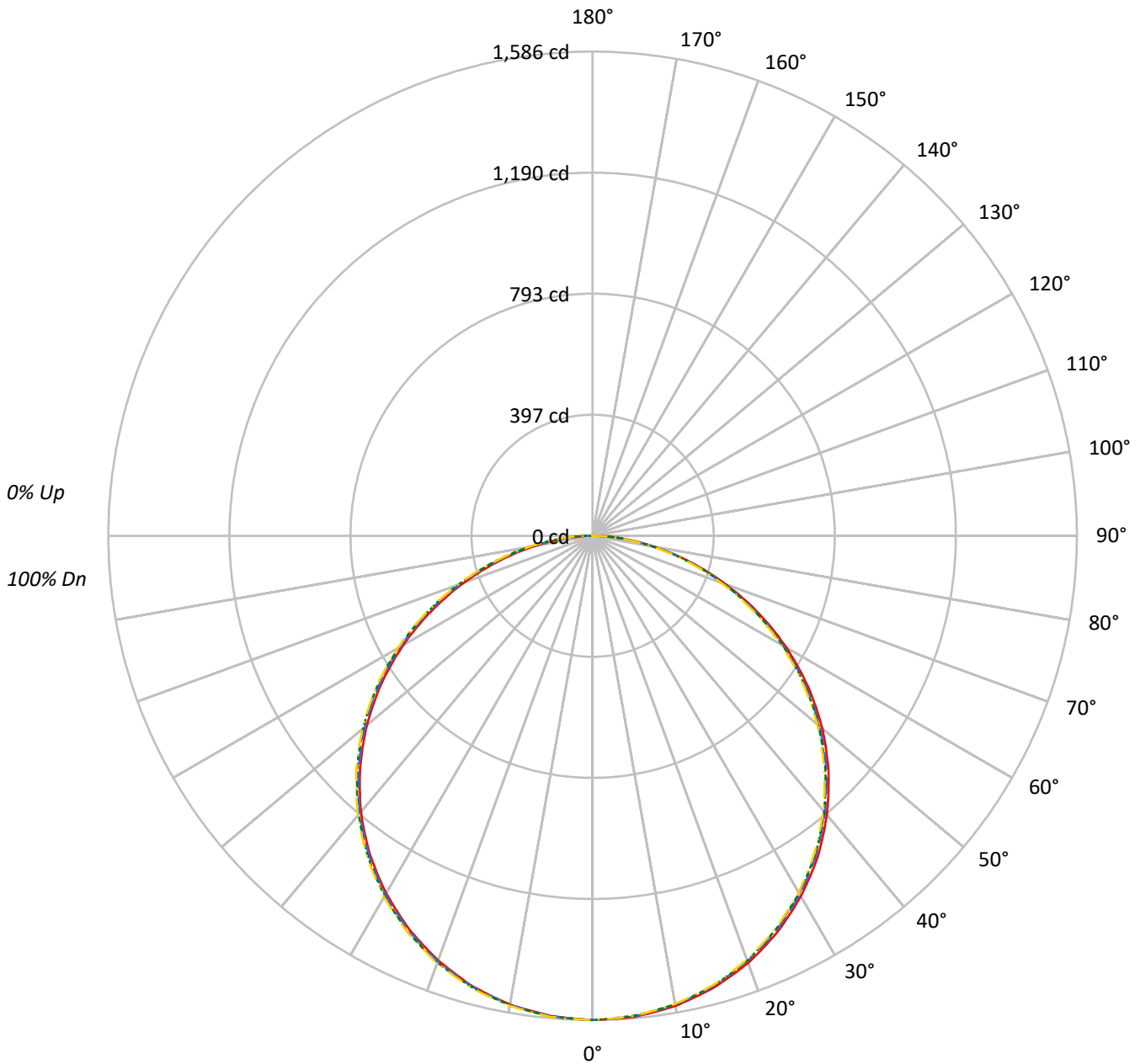
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 4675.9 lumens
Efficiency: 133.2%
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.5
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: P588676

CATALOG NUMBER: 22CGTS-NUV-HI-4000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	159	159	159	159	155	155	155	155	148	148	148	142	142	142	136	136	136	133																			
1	144	138	132	127	141	135	129	125	129	125	121	124	120	117	119	116	113	111																			
2	131	120	111	103	128	117	109	101	112	105	99	108	102	97	104	99	95	92																			
3	119	105	94	85	116	103	93	84	99	90	83	95	88	81	92	85	80	77																			
4	109	93	81	72	106	91	80	71	88	78	70	84	76	69	82	74	68	65																			
5	100	83	71	62	97	81	70	61	78	68	61	76	67	60	73	65	59	56																			
6	92	74	62	54	90	73	62	53	71	61	53	68	59	52	66	58	52	49																			
7	86	67	56	47	83	66	55	47	64	54	47	62	53	46	60	52	46	43																			
8	80	62	50	42	78	61	50	42	59	49	42	57	48	41	55	47	41	39																			
9	74	56	45	38	73	56	45	38	54	44	38	53	44	37	51	43	37	35																			
10	70	52	41	34	68	51	41	34	50	41	34	49	40	34	47	39	34	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4269	4269	4269	4269
5°	4273	4262	4263	4269
10°	4273	4258	4260	4267
15°	4270	4252	4253	4264
20°	4265	4242	4238	4260
25°	4253	4222	4222	4250
30°	4238	4199	4202	4233
35°	4221	4179	4180	4213
40°	4192	4144	4146	4186
45°	4159	4099	4099	4153
50°	4110	4041	4040	4106
55°	4039	3968	3960	4038
60°	3946	3871	3853	3949
65°	3815	3736	3706	3828
70°	3642	3570	3516	3678
75°	3419	3354	3269	3489
80°	3106	3082	2918	3265
85°	2674	2655	2393	2979



TEST NUMBER: P588676

CATALOG NUMBER: 22CGTS-NUV-HI-4000K

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	150.2	3.2	4.3	0°	1586	1586	1586	1586	1586	
10°-20°	431.5	9.2	12.3	5°	1582	1578	1578	1580	1582	150
20°-30°	657.6	14.1	18.7	15°	1533	1526	1526	1531	1533	433
30°-40°	798.9	17.1	22.8	25°	1432	1422	1422	1431	1432	660
40°-50°	835.7	17.9	23.8	35°	1285	1272	1272	1283	1285	803
50°-60°	761.1	16.3	21.7	45°	1093	1077	1077	1091	1093	842
60°-70°	585.7	12.5	16.7	55°	861	846	844	861	861	769
70°-80°	345.2	7.4	9.8	65°	599	587	582	601	599	593
80°-90°	102.1	2.2	2.9	75°	329	323	314	336	329	349
90°-100°	1.1	0.0	0.0	85°	87	86	78	96	87	96
100°-110°	0.7	0.0	0.0	90°	2	1	1	3	2	13
110°-120°	0.9	0.0	0.0	95°	1	1	1	1	1	1
120°-130°	0.9	0.0	0.0	105°	0	1	1	1	0	1
130°-140°	1.0	0.0	0.0	115°	0	1	1	1	0	0
140°-150°	1.2	0.0	0.0	125°	0	1	1	1	0	0
150°-160°	1.1	0.0	0.0	135°	1	2	2	1	1	1
160°-170°	0.7	0.0	0.0	145°	2	2	2	2	2	1
170°-180°	0.3	0.0	0.0	155°	2	3	3	2	2	1
0°-30°	1239.4	26.5	35.3	165°	2	3	3	2	2	1
0°-40°	2038.3	43.6	58.1	175°	3	4	3	3	3	0
0°-60°	3635.0	77.7	103.5	180°	3	3	3	3	3	
0°-90°	4668.1	99.8	133.0							
90°-120°	2.7	0.1	0.1							
90°-150°	5.8	0.1	0.2							
90°-180°	8.0	0.2	0.2							
0°-180°	4675.9	100.0	133.2							



TEST NUMBER: P588676

CATALOG NUMBER: 22CGTS-NUV-HI-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4
5°	1581.8	1580.8	1579.9	1579.7	1577.8	1578.9	1578.3	1578.3	1578.3	1579.2	1579.5
10°	1563.8	1561.7	1559.9	1559.1	1558.4	1558.4	1557.4	1557.9	1559.1	1559.3	1560.1
15°	1532.6	1530.2	1527.9	1526.2	1526.3	1524.7	1523.9	1525.0	1526.5	1527.6	1528.6
20°	1489.2	1486.1	1482.6	1480.5	1481.2	1478.5	1477.6	1478.9	1479.8	1481.9	1483.4
25°	1432.4	1429.4	1426.2	1422.9	1422.0	1420.7	1419.4	1420.1	1421.9	1424.3	1426.4
30°	1363.8	1360.3	1356.8	1353.3	1351.5	1349.9	1349.2	1349.7	1352.3	1354.5	1357.7
35°	1284.8	1280.2	1275.9	1270.5	1272.2	1269.2	1267.3	1268.7	1272.4	1274.7	1277.6
40°	1193.3	1188.9	1183.6	1178.8	1179.8	1177.0	1175.7	1176.6	1180.3	1182.1	1186.2
45°	1092.8	1087.5	1082.8	1077.1	1077.2	1074.2	1072.1	1074.0	1077.2	1080.0	1083.6
50°	981.7	975.6	970.4	964.7	965.3	961.9	959.8	961.2	965.1	967.6	973.2
55°	860.9	855.5	850.2	844.8	845.7	842.3	839.1	840.3	844.1	847.2	853.1
60°	733.1	727.3	721.5	716.4	719.2	715.3	712.3	712.1	715.9	719.6	726.8
65°	599.2	594.1	588.9	584.3	586.8	583.5	579.5	578.4	582.1	586.7	594.2
70°	462.9	457.8	454.2	450.1	453.8	449.8	445.9	444.1	446.9	451.9	460.1
75°	328.8	324.9	322.0	319.2	322.6	319.5	315.3	312.7	314.4	319.8	328.2
80°	200.4	197.3	197.3	195.6	198.9	195.8	191.0	187.2	188.3	193.4	202.9
85°	86.6	84.2	83.7	83.4	86.0	83.2	78.2	76.2	77.5	81.1	88.3
90°	2.1	1.7	1.6	1.6	0.6	0.6	0.7	0.7	0.7	0.6	1.4
95°	0.8	0.8	0.8	0.9	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100°	0.5	0.6	0.6	0.6	0.6	0.8	0.7	0.6	0.6	0.6	0.6
105°	0.5	0.5	0.6	0.6	0.7	0.8	0.8	0.7	0.8	0.8	0.9
110°	0.5	0.5	0.6	0.5	1.0	1.1	1.2	1.0	0.9	1.0	1.2
115°	0.5	0.5	0.6	0.5	1.2	1.3	1.3	1.1	1.2	1.4	1.3
120°	0.5	0.5	0.6	0.5	1.3	1.5	1.5	1.1	1.3	1.3	1.6
125°	0.5	0.5	0.6	0.5	1.4	1.6	1.5	1.1	1.3	1.3	1.6
130°	0.5	0.5	0.6	0.5	1.5	1.9	1.7	1.4	1.5	1.7	1.8
135°	0.8	0.5	0.6	0.5	1.8	1.9	1.8	1.8	1.9	2.2	2.0
140°	1.3	1.0	0.6	0.8	1.9	2.2	2.0	2.0	2.0	2.4	2.2
145°	1.7	1.7	0.9	1.4	2.2	2.3	2.3	2.4	2.3	2.4	2.4
150°	1.7	1.7	1.7	1.7	2.5	2.6	2.7	2.7	2.4	2.7	2.7
155°	1.7	1.7	1.6	1.7	2.8	2.9	3.0	2.9	2.7	3.1	3.0
160°	1.7	1.7	1.6	1.7	3.2	3.3	3.3	2.9	3.1	3.1	3.4
165°	2.2	2.2	1.9	1.8	3.3	3.3	3.4	2.9	3.1	3.1	3.3
170°	2.5	2.6	2.2	2.5	3.4	3.3	3.6	2.9	3.1	3.1	3.4
175°	3.0	3.2	2.8	3.3	3.7	3.3	3.6	2.9	3.1	3.1	3.4
180°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0



TEST NUMBER: P588676

CATALOG NUMBER: 22CGTS-NUV-HI-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1586.4	1586.4	1586.4	1586.4	1586.4	1586.4
5°	1580.2	1580.4	1582.1	1581.8	1582.0	1581.8
10°	1561.3	1561.6	1563.7	1563.6	1563.8	1563.8
15°	1530.2	1530.7	1533.0	1532.7	1533.1	1532.6
20°	1487.0	1487.5	1489.7	1489.4	1489.7	1489.2
25°	1429.9	1431.4	1434.0	1433.7	1434.0	1432.4
30°	1361.2	1362.2	1365.3	1366.3	1366.0	1363.8
35°	1281.6	1282.6	1285.7	1286.2	1285.7	1284.8
40°	1191.0	1191.6	1194.8	1195.4	1194.8	1193.3
45°	1089.1	1091.4	1093.9	1095.1	1093.8	1092.8
50°	977.8	980.9	982.9	983.8	982.9	981.7
55°	859.0	860.7	863.6	864.4	862.8	860.9
60°	732.8	733.7	736.8	736.9	734.6	733.1
65°	600.8	601.2	605.0	604.2	601.4	599.2
70°	466.8	467.5	470.6	469.4	465.6	462.9
75°	336.1	335.6	338.5	336.6	332.7	328.8
80°	211.5	210.7	212.8	211.0	205.1	200.4
85°	97.3	96.5	98.3	95.4	90.6	86.6
90°	3.7	3.0	4.2	4.3	3.2	2.1
95°	0.6	0.9	0.8	0.8	0.9	0.8
100°	0.6	0.6	0.7	0.7	0.6	0.5
105°	0.7	0.6	0.6	0.6	0.5	0.5
110°	1.0	0.6	0.6	0.6	0.5	0.5
115°	1.1	0.6	0.6	0.6	0.5	0.5
120°	1.3	0.6	0.6	0.6	0.5	0.5
125°	1.4	0.6	0.6	0.6	0.5	0.5
130°	1.7	0.6	0.6	0.6	0.5	0.5
135°	1.8	0.6	0.6	0.6	0.6	0.8
140°	1.9	1.3	1.3	0.6	1.2	1.3
145°	2.2	1.6	1.7	1.0	1.6	1.7
150°	2.6	1.7	1.7	1.6	1.7	1.7
155°	2.9	1.7	1.7	1.6	1.7	1.7
160°	3.0	1.7	1.7	1.6	1.7	1.7
165°	3.0	1.9	1.9	1.8	2.0	2.2
170°	3.0	2.4	2.5	2.2	2.4	2.5
175°	3.0	3.1	3.4	2.7	3.1	3.0
180°	3.0	3.0	3.0	3.0	3.0	3.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)