

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: P588677

Luminaire Tested: **22CGTS-NUV-HI-5000K**

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: P588677
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-5000K
Description: 2X2 CGT SELECT TROFFER AT HI LUMEN OUTPUT AND 5000K COLOR SETTING

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

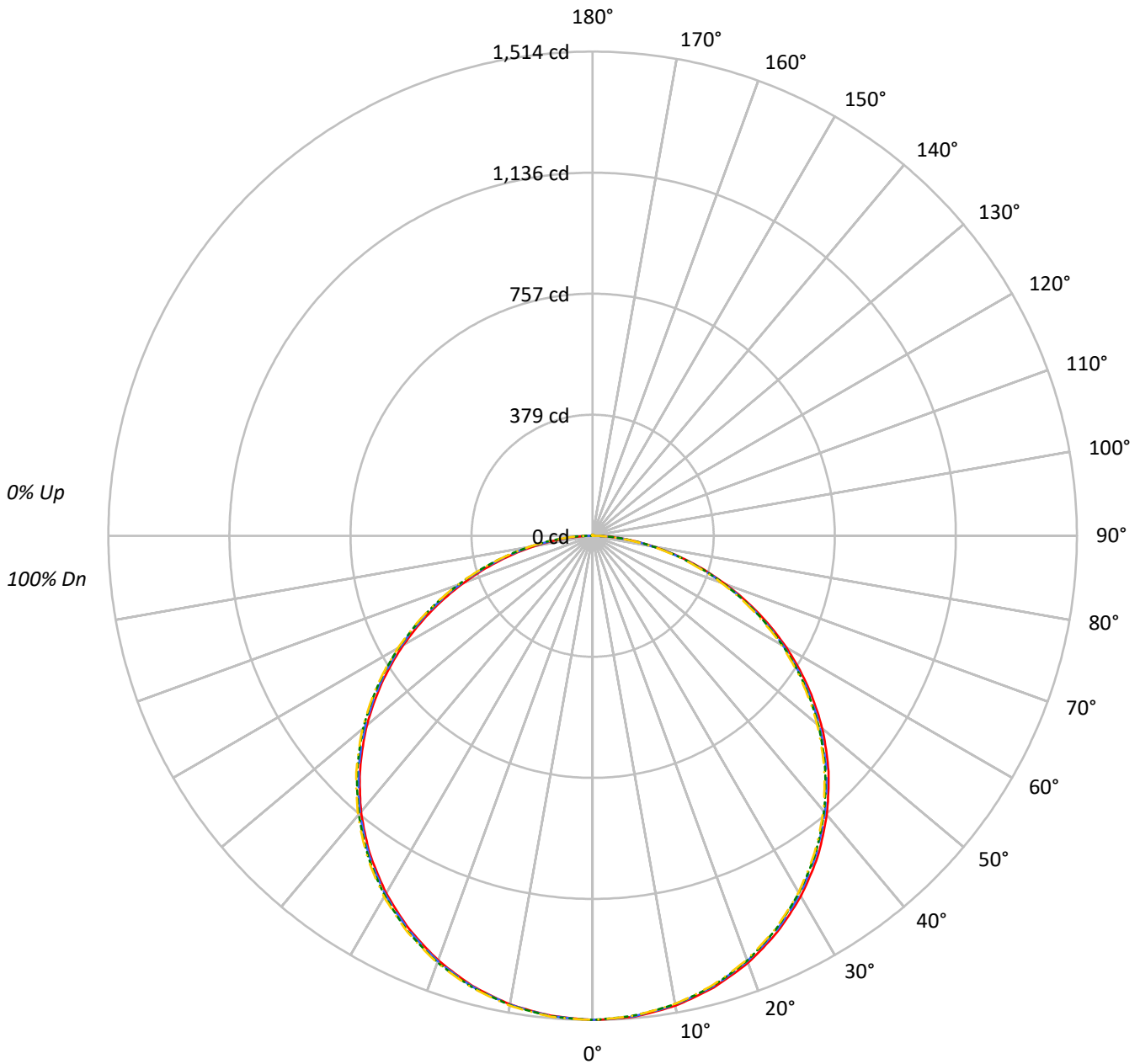
Lumens per Lamp: 3510.7 (1 lamp)
Luminaire Lumens: 4462.1 lumens
Efficiency: 127.1%
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40.3
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	50	30	10	0
RCR																					
0	151	151	151	151	148	148	148	148	141	141	141	135	135	135	129	129	129	129	129	129	127
1	138	132	126	121	134	129	124	119	123	119	115	118	115	112	114	111	108	108	108	108	105
2	125	114	105	98	122	112	104	97	107	100	95	103	97	92	99	94	90	90	90	90	87
3	114	100	90	81	111	98	88	80	94	86	79	91	84	78	87	81	76	76	76	76	73
4	104	89	77	69	101	87	76	68	84	74	67	81	73	66	78	71	65	65	65	65	62
5	96	79	67	59	93	78	67	59	75	65	58	72	64	57	70	62	57	57	57	57	54
6	88	71	60	51	86	70	59	51	68	58	51	65	57	50	63	56	50	50	50	50	47
7	82	64	53	45	80	63	53	45	61	52	45	59	51	44	58	50	44	44	44	44	41
8	76	59	48	40	74	58	47	40	56	47	40	54	46	40	53	45	39	39	39	39	37
9	71	54	43	36	69	53	43	36	52	42	36	50	42	36	49	41	35	35	35	35	33
10	67	50	40	33	65	49	39	33	48	39	32	46	38	32	45	38	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4074	4074	4074	4074
5°	4077	4067	4068	4074
10°	4077	4063	4065	4072
15°	4074	4057	4058	4069
20°	4070	4048	4044	4065
25°	4058	4029	4029	4056
30°	4044	4007	4010	4039
35°	4028	3988	3989	4021
40°	4000	3955	3956	3994
45°	3968	3912	3912	3963
50°	3921	3856	3855	3918
55°	3854	3786	3779	3853
60°	3765	3693	3677	3768
65°	3641	3565	3536	3653
70°	3475	3407	3355	3510
75°	3262	3200	3119	3329
80°	2965	2941	2785	3115
85°	2553	2535	2282	2844



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	143.3	3.2	4.1	0°	1514	1514	1514	1514	1514	
10°-20°	411.8	9.2	11.7	5°	1509	1506	1506	1508	1509	144
20°-30°	627.5	14.1	17.9	15°	1462	1456	1457	1461	1462	413
30°-40°	762.3	17.1	21.7	25°	1367	1357	1357	1366	1367	630
40°-50°	797.4	17.9	22.7	35°	1226	1214	1214	1224	1226	767
50°-60°	726.3	16.3	20.7	45°	1043	1028	1028	1041	1043	804
60°-70°	558.9	12.5	15.9	55°	822	807	806	821	822	734
70°-80°	329.4	7.4	9.4	65°	572	560	555	574	572	566
80°-90°	97.5	2.2	2.8	75°	314	308	300	320	314	333
90°-100°	1.1	0.0	0.0	85°	83	82	74	92	83	92
100°-110°	0.7	0.0	0.0	90°	2	1	1	3	2	12
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°	1.1	0.0	0.0	125°	0	1	1	1	0	0
150°-160°	1.0	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	2	2	2	1
0°-30°	1182.7	26.5	33.7	165°	2	3	3	2	2	1
0°-40°	1945.0	43.6	55.4	175°	3	4	3	3	3	0
0°-60°	3468.7	77.7	98.8	180°	3	3	3	3	3	
0°-90°	4454.4	99.8	126.9							
90°-120°	2.7	0.1	0.1							
90°-150°	5.7	0.1	0.2							
90°-180°	8.0	0.2	0.2							
0°-180°	4462.1	100.0	127.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
5°	1509.4	1508.4	1507.6	1507.4	1505.6	1506.6	1506.1	1506.1	1506.1	1506.9	1507.3
10°	1492.2	1490.2	1488.5	1487.8	1487.1	1487.1	1486.2	1486.6	1487.8	1487.9	1488.7
15°	1462.4	1460.2	1458.0	1456.4	1456.4	1454.9	1454.1	1455.2	1456.6	1457.7	1458.7
20°	1421.1	1418.1	1414.8	1412.7	1413.4	1410.8	1410.0	1411.2	1412.1	1414.1	1415.5
25°	1366.8	1364.0	1360.9	1357.7	1356.9	1355.7	1354.5	1355.1	1356.9	1359.1	1361.1
30°	1301.4	1298.0	1294.7	1291.4	1289.7	1288.1	1287.4	1287.9	1290.4	1292.5	1295.6
35°	1226.0	1221.6	1217.5	1212.4	1214.0	1211.1	1209.3	1210.7	1214.2	1216.4	1219.1
40°	1138.7	1134.5	1129.4	1124.9	1125.8	1123.1	1121.9	1122.7	1126.3	1128.0	1131.9
45°	1042.8	1037.7	1033.2	1027.8	1027.9	1025.0	1023.0	1024.8	1027.9	1030.6	1034.0
50°	936.7	931.0	926.0	920.5	921.1	917.9	915.8	917.2	920.9	923.4	928.6
55°	821.5	816.3	811.2	806.1	807.0	803.8	800.7	801.9	805.5	808.4	814.0
60°	699.5	694.0	688.5	683.6	686.2	682.5	679.7	679.5	683.2	686.6	693.6
65°	571.8	566.9	561.9	557.6	559.9	556.8	553.0	551.9	555.4	559.8	567.0
70°	441.7	436.8	433.4	429.5	433.0	429.2	425.5	423.8	426.4	431.2	439.1
75°	313.7	310.0	307.3	304.6	307.8	304.8	300.9	298.4	300.0	305.1	313.1
80°	191.3	188.3	188.3	186.7	189.8	186.8	182.3	178.6	179.7	184.5	193.6
85°	82.7	80.4	79.9	79.6	82.1	79.4	74.6	72.7	73.9	77.4	84.3
90°	2.0	1.6	1.5	1.5	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	2.1	2.0
140°	1.3	1.0	0.6	0.8	1.9	2.1	2.0	2.0	2.0	2.2	2.1
145°	1.7	1.7	0.9	1.4	2.1	2.2	2.2	2.2	2.2	2.2	2.2
150°	1.7	1.7	1.7	1.7	2.3	2.5	2.5	2.5	2.2	2.5	2.5
155°	1.7	1.7	1.6	1.7	2.6	2.7	2.8	2.7	2.5	2.9	2.8
160°	1.7	1.7	1.6	1.7	3.0	3.1	3.1	2.7	2.9	2.9	3.2
165°	2.1	2.1	1.9	1.8	3.1	3.1	3.2	2.7	2.9	2.9	3.1
170°	2.3	2.4	2.1	2.3	3.2	3.1	3.4	2.7	2.9	2.9	3.2
175°	2.8	3.0	2.6	3.1	3.5	3.1	3.4	2.7	2.9	2.9	3.2
180°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1513.8	1513.8	1513.8	1513.8	1513.8	1513.8
5°	1507.9	1508.1	1509.7	1509.4	1509.6	1509.4
10°	1489.8	1490.1	1492.1	1492.0	1492.3	1492.2
15°	1460.2	1460.6	1462.8	1462.6	1462.9	1462.4
20°	1418.9	1419.4	1421.5	1421.2	1421.5	1421.1
25°	1364.5	1365.9	1368.4	1368.1	1368.4	1366.8
30°	1298.9	1299.9	1302.8	1303.8	1303.5	1301.4
35°	1222.9	1223.9	1226.9	1227.3	1226.9	1226.0
40°	1136.5	1137.1	1140.1	1140.7	1140.1	1138.7
45°	1039.3	1041.4	1043.9	1045.0	1043.7	1042.8
50°	933.0	936.0	937.9	938.8	937.9	936.7
55°	819.7	821.3	824.1	824.8	823.3	821.5
60°	699.2	700.1	703.1	703.2	701.0	699.5
65°	573.4	573.7	577.3	576.6	573.9	571.8
70°	445.5	446.1	449.1	448.0	444.3	441.7
75°	320.7	320.2	323.0	321.2	317.5	313.7
80°	201.8	201.0	203.1	201.4	195.7	191.3
85°	92.9	92.1	93.8	91.0	86.5	82.7
90°	3.5	2.8	4.0	4.1	3.1	2.0
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°	2.1	1.6	1.7	1.0	1.6	1.7
150°	2.4	1.7	1.7	1.6	1.7	1.7
155°	2.7	1.7	1.7	1.6	1.7	1.7
160°	2.8	1.7	1.7	1.6	1.7	1.7
165°	2.8	1.9	1.9	1.8	2.0	2.1
170°	2.8	2.2	2.3	2.1	2.2	2.3
175°	2.8	2.9	3.2	2.5	2.9	2.8
180°	2.8	2.8	2.8	2.8	2.8	2.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)