

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: P588668

Luminaire Tested: **14CGTS-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: P588668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LCS210329017BSA)
Test Lab:
Issue Date: 12/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CGTS-NUV-HI-5000K
Description: 1X4 CGT SELECT TROFFER AT HI LUMEN OUTPUT AND 5000K COLOR SETTING

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

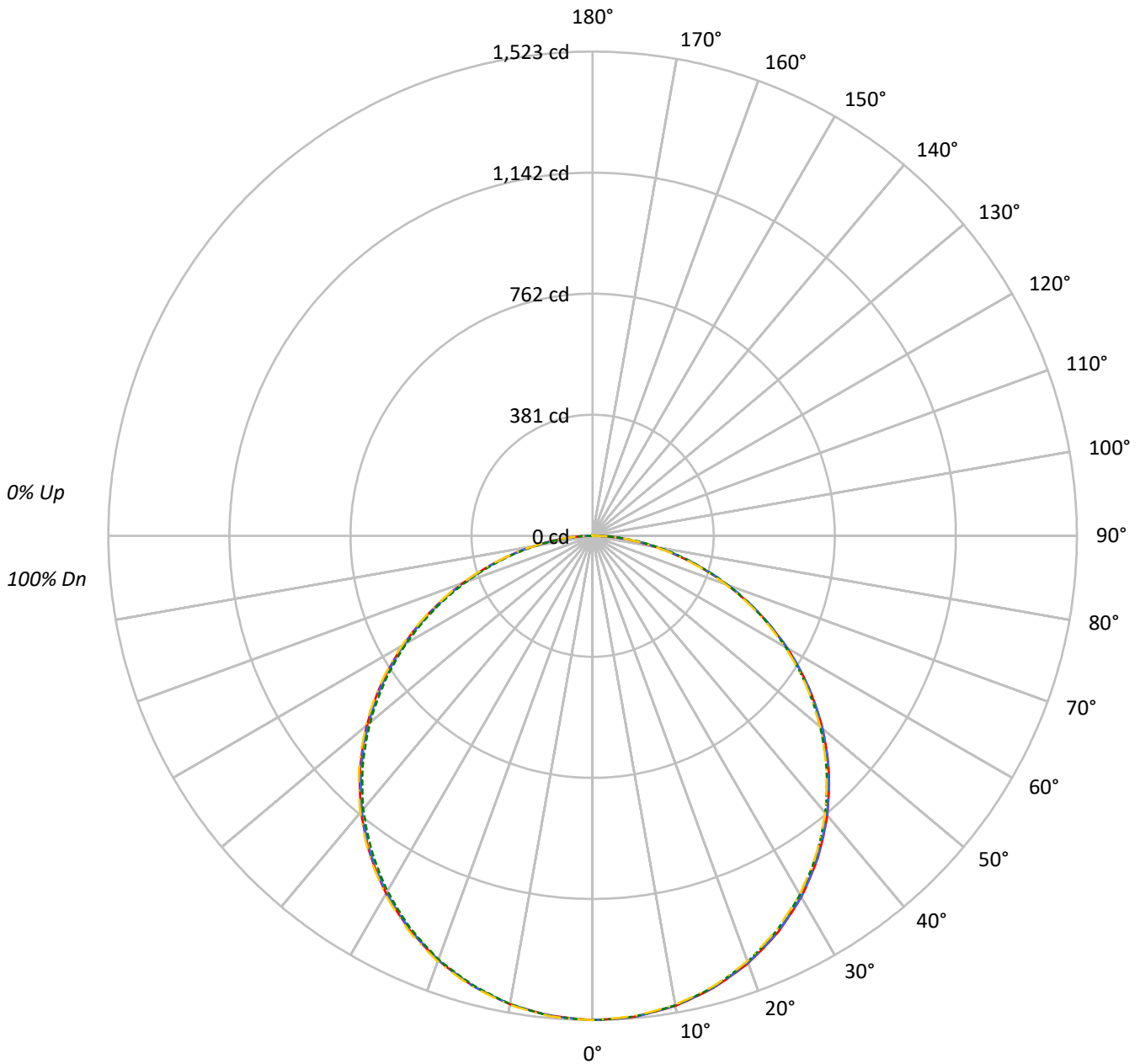
Lumens per Lamp: 3522.2 (1 lamp)
Luminaire Lumens: 4486.1 lumens
Efficiency: 127.4%
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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									
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	152	152	152	152	148	148	148	148	141	141	141	135	135	135	130	130	130	127																			
1	138	132	126	121	135	129	124	119	123	119	115	118	115	112	114	111	108	106																			
2	125	115	106	98	122	112	104	97	108	101	95	103	98	92	99	95	90	88																			
3	114	100	90	81	111	98	88	81	94	86	79	91	84	78	88	81	76	73																			
4	104	89	77	69	101	87	76	68	84	75	67	81	73	66	78	71	65	62																			
5	96	79	68	59	93	78	67	59	75	65	58	72	64	57	70	63	57	54																			
6	88	71	60	51	86	70	59	51	68	58	51	65	57	50	63	56	50	47																			
7	82	65	53	45	80	63	53	45	61	52	45	60	51	44	58	50	44	41																			
8	76	59	48	40	74	58	47	40	56	47	40	55	46	40	53	45	39	37																			
9	71	54	43	36	69	53	43	36	52	42	36	50	42	36	49	41	36	33																			
10	67	50	40	33	65	49	39	33	48	39	33	47	38	32	45	38	32	30																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4099	4099	4099	4099
5°	4102	4099	4093	4096
10°	4102	4098	4088	4086
15°	4100	4092	4080	4073
20°	4097	4081	4068	4060
25°	4089	4068	4054	4038
30°	4077	4051	4037	4009
35°	4059	4031	4012	3978
40°	4032	3999	3979	3941
45°	3999	3960	3935	3891
50°	3952	3912	3878	3823
55°	3888	3850	3804	3737
60°	3801	3772	3702	3634
65°	3684	3673	3573	3497
70°	3532	3552	3401	3319
75°	3332	3397	3176	3098
80°	3064	3219	2876	2806
85°	2723	3084	2473	2331



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	90°	180°	270°	360°	Flux
0°-10°	144.2	3.2	4.1	0°	1523	1523	1523	1523	
10°-20°	414.2	9.2	11.8	5°	1518	1517	1515	1516	144
20°-30°	631.0	14.1	17.9	15°	1472	1469	1465	1462	416
30°-40°	766.1	17.1	21.8	25°	1377	1370	1365	1360	635
40°-50°	800.8	17.9	22.7	35°	1236	1227	1221	1211	773
50°-60°	728.8	16.2	20.7	45°	1051	1041	1034	1022	810
60°-70°	561.5	12.5	15.9	55°	829	821	811	797	740
70°-80°	332.1	7.4	9.4	65°	578	577	561	549	572
80°-90°	99.9	2.2	2.8	75°	320	327	306	298	340
90°-100°	1.0	0.0	0.0	85°	88	100	80	76	96
100°-110°	0.9	0.0	0.0	90°	3	1	1	1	13
110°-120°	0.9	0.0	0.0	95°	1	0	1	1	1
120°-130°	0.7	0.0	0.0	105°	1	0	2	0	1
130°-140°	0.8	0.0	0.0	115°	1	1	2	0	1
140°-150°	1.1	0.0	0.0	125°	1	1	1	0	1
150°-160°	1.0	0.0	0.0	135°	1	1	1	0	1
160°-170°	0.7	0.0	0.0	145°	2	2	1	2	1
170°-180°	0.3	0.0	0.0	155°	2	2	2	2	1
0°-30°	1189.4	26.5	33.8	165°	2	3	3	2	1
0°-40°	1955.5	43.6	55.5	175°	2	3	3	3	0
0°-60°	3485.2	77.7	98.9	180°	2	2	2	2	
0°-90°	4478.7	99.8	127.2						
90°-120°	2.8	0.1	0.1						
90°-150°	5.4	0.1	0.2						
90°-180°	7.0	0.2	0.2						
0°-180°	4486.1	100.0	127.4						



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1523.3	1523.3	1523.3	1523.3	1523.3	1523.3	1523.3	1523.3	1523.3	1523.3	1523.3
5°	1518.5	1518.9	1518.7	1518.3	1517.4	1517.1	1515.9	1515.8	1515.1	1515.7	1515.5
10°	1501.3	1501.7	1500.0	1500.0	1499.6	1498.6	1497.5	1497.2	1496.2	1495.3	1495.9
15°	1471.7	1473.2	1470.6	1469.1	1468.9	1467.4	1466.6	1466.2	1464.6	1464.4	1464.5
20°	1430.7	1430.7	1428.8	1427.3	1425.0	1424.4	1423.2	1421.9	1420.6	1420.3	1419.6
25°	1377.2	1377.9	1375.7	1373.0	1370.1	1369.7	1368.0	1366.6	1365.4	1364.5	1363.5
30°	1312.1	1313.0	1310.5	1306.4	1303.7	1303.1	1301.8	1300.1	1299.3	1297.5	1296.7
35°	1235.5	1236.6	1233.6	1229.2	1227.1	1226.1	1224.8	1222.5	1221.3	1220.0	1217.6
40°	1147.8	1148.9	1146.2	1141.9	1138.4	1138.4	1137.5	1134.8	1132.8	1131.2	1129.1
45°	1050.9	1053.0	1050.1	1045.2	1040.6	1039.5	1039.5	1036.4	1034.1	1032.1	1029.5
50°	944.0	946.2	943.3	939.1	934.4	933.5	932.9	930.1	926.4	924.3	921.2
55°	828.7	830.5	828.5	824.4	820.7	818.6	818.6	814.3	810.8	807.9	805.4
60°	706.2	707.7	707.1	703.3	700.9	698.0	697.4	692.4	687.9	684.8	683.4
65°	578.5	580.3	580.7	577.5	576.8	573.4	570.8	566.2	561.2	557.3	556.6
70°	448.9	450.8	452.6	449.7	451.5	446.4	442.4	437.5	432.2	428.7	428.8
75°	320.5	323.0	325.8	323.9	326.7	321.5	316.3	310.9	305.5	302.2	302.9
80°	197.7	201.1	204.9	204.7	207.7	203.2	197.0	190.0	185.6	182.9	183.9
85°	88.2	91.9	94.8	95.5	99.9	95.7	89.5	83.9	80.1	77.6	77.4
90°	3.0	2.9	1.9	1.9	1.3	1.1	1.0	1.0	1.3	0.7	0.4
95°	1.3	1.0	0.8	0.7	0.4	0.5	0.5	1.0	1.2	0.6	0.4
100°	1.3	0.9	0.5	0.6	0.4	0.5	0.6	1.2	1.6	0.7	0.5
105°	1.3	0.9	0.4	0.4	0.5	0.6	0.7	1.6	2.5	1.0	0.6
110°	1.2	0.9	0.4	0.4	0.6	0.7	0.9	1.7	3.0	1.1	0.8
115°	0.9	0.8	0.4	0.4	1.0	0.9	1.2	1.7	2.4	1.2	0.9
120°	0.6	0.7	0.4	0.4	0.9	0.9	1.2	1.6	1.9	1.2	1.0
125°	0.6	0.7	0.4	0.4	0.9	0.9	1.2	1.6	1.1	1.2	1.0
130°	0.6	0.7	0.4	0.4	1.0	0.9	1.3	1.9	1.0	1.3	1.2
135°	0.6	1.2	0.6	0.5	1.1	1.2	1.5	2.6	1.0	1.9	1.2
140°	0.8	1.6	1.2	1.0	1.2	1.3	1.8	2.9	1.1	2.6	1.4
145°	1.6	1.7	1.6	1.6	1.5	1.7	1.9	3.1	1.3	2.9	1.6
150°	1.6	2.0	1.9	1.6	2.0	2.0	2.2	3.2	1.7	3.0	1.9
155°	1.7	2.1	2.1	1.7	2.2	2.2	2.7	3.2	2.2	2.3	2.3
160°	1.9	2.3	2.1	1.8	2.5	2.5	2.8	3.2	3.0	2.2	2.9
165°	2.0	2.3	2.3	2.0	2.6	2.8	3.0	3.2	3.2	2.2	3.2
170°	2.1	2.6	2.8	2.4	2.9	2.9	3.0	3.2	3.2	2.2	3.2
175°	2.2	3.0	3.0	2.6	3.3	3.2	3.3	3.2	3.2	2.2	3.2
180°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1523.3	1523.3	1523.3	1523.3	1523.3	1523.3
5°	1516.2	1516.3	1515.9	1517.6	1518.0	1518.5
10°	1495.8	1495.5	1497.5	1498.4	1500.4	1501.3
15°	1464.6	1461.9	1464.6	1467.3	1470.2	1471.7
20°	1419.2	1417.7	1421.4	1424.7	1428.3	1430.7
25°	1362.7	1359.9	1364.7	1370.3	1374.4	1377.2
30°	1296.3	1290.3	1297.2	1302.8	1308.6	1312.1
35°	1216.6	1211.0	1218.0	1224.9	1231.9	1235.5
40°	1127.8	1121.8	1128.0	1137.0	1144.0	1147.8
45°	1028.5	1022.5	1029.9	1039.2	1046.7	1050.9
50°	919.9	913.2	921.1	931.4	938.5	944.0
55°	804.5	796.6	804.8	815.6	823.3	828.7
60°	682.6	675.2	682.0	693.4	700.7	706.2
65°	556.5	549.2	555.0	565.9	573.4	578.5
70°	428.6	421.9	427.6	436.5	443.6	448.9
75°	303.7	298.0	302.8	309.3	315.6	320.5
80°	185.4	181.1	185.0	189.7	193.8	197.7
85°	79.6	75.5	78.9	81.9	85.0	88.2
90°	0.6	1.4	1.6	2.0	2.3	3.0
95°	0.4	0.7	0.7	0.8	0.9	1.3
100°	0.4	0.6	0.6	0.5	0.8	1.3
105°	0.5	0.5	0.4	0.4	0.8	1.3
110°	0.6	0.5	0.4	0.4	0.8	1.2
115°	0.8	0.5	0.4	0.4	0.8	0.9
120°	0.8	0.5	0.4	0.4	0.7	0.6
125°	0.8	0.5	0.4	0.4	0.7	0.6
130°	0.9	0.5	0.4	0.4	0.7	0.6
135°	1.0	0.5	0.4	0.5	0.8	0.6
140°	1.2	0.9	0.8	1.0	1.6	0.8
145°	1.5	1.6	1.7	1.6	1.7	1.6
150°	1.8	1.6	1.7	1.8	1.9	1.6
155°	2.1	1.6	1.7	1.9	2.0	1.7
160°	2.5	1.7	1.7	1.9	2.0	1.9
165°	2.6	2.1	2.0	2.2	2.8	2.0
170°	2.9	2.2	2.6	3.0	3.0	2.1
175°	3.0	3.1	3.1	3.1	3.0	2.2
180°	2.2	2.2	2.2	2.2	2.2	2.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)