

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: P588692

Luminaire Tested: **24CGTS-NUV-MID-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: P588692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LCS210329021BSA)
Test Lab:
Issue Date: 12/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CGTS-NUV-MID-5000K
Description: 2X4 CGT SELECT TROFFER AT MID LUMEN OUTPUT AND 5000K COLOR SETTING

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

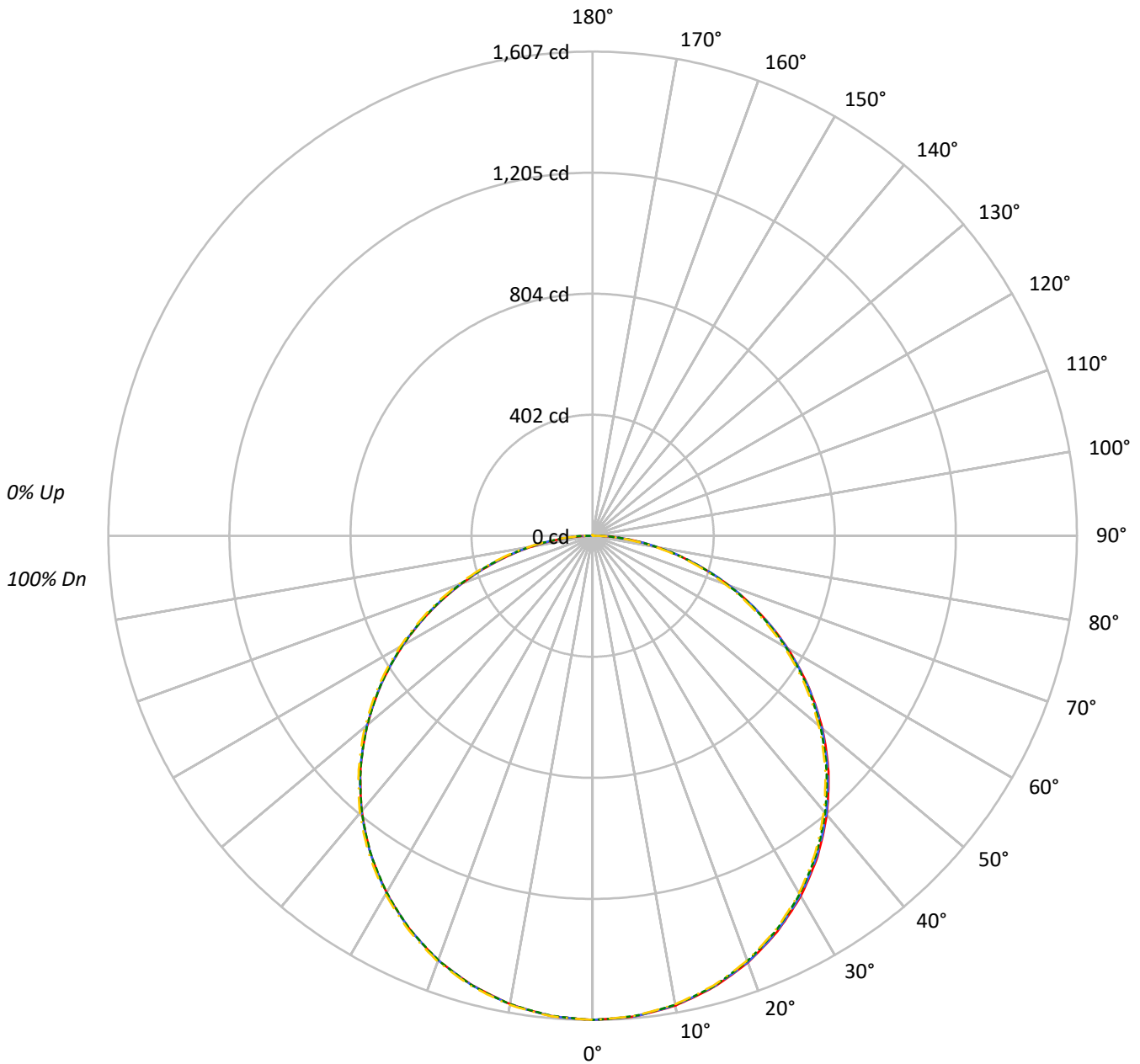
Lumens per Lamp: 4179.4 (1 lamp)
Luminaire Lumens: 4753.0 lumens
Efficiency: 113.7%
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.2
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	135	135	135	135	132	132	132	132	126	126	126	121	121	121	116	116	116	114																			
1	123	118	113	108	120	115	110	106	110	106	103	106	102	100	101	99	97	94																			
2	112	102	94	87	109	100	93	86	96	90	84	92	87	82	89	84	80	78																			
3	102	89	80	72	99	88	79	72	84	77	70	81	75	69	78	73	68	65																			
4	93	79	69	61	90	78	68	61	75	66	60	72	65	59	69	63	58	56																			
5	85	71	60	52	83	69	59	52	67	58	52	64	57	51	62	56	50	48																			
6	79	63	53	46	77	62	53	45	60	52	45	58	51	45	56	50	44	42																			
7	73	57	47	40	71	57	47	40	55	46	40	53	45	39	51	44	39	37																			
8	68	52	43	36	66	52	42	36	50	42	35	49	41	35	47	40	35	33																			
9	63	48	39	32	62	47	38	32	46	38	32	45	37	32	44	37	32	29																			
10	60	44	35	29	58	44	35	29	43	35	29	41	34	29	40	34	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	2162	2162	2162	2162
5°	2163	2161	2160	2159
10°	2163	2159	2156	2157
15°	2160	2157	2151	2152
20°	2158	2150	2146	2146
25°	2152	2143	2136	2136
30°	2145	2134	2125	2124
35°	2137	2123	2112	2111
40°	2123	2108	2093	2094
45°	2106	2089	2072	2072
50°	2083	2065	2041	2042
55°	2051	2036	2006	2007
60°	2010	1993	1956	1961
65°	1957	1940	1892	1901
70°	1889	1874	1809	1827
75°	1801	1794	1705	1736
80°	1681	1687	1560	1624
85°	1567	1497	1340	1462



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	152.1	3.2	3.6	0°	1607	1607	1607	1607	1607	
10°-20°	436.7	9.2	10.4	5°	1601	1600	1600	1598	1601	152
20°-30°	665.0	14.0	15.9	15°	1551	1548	1544	1545	1551	438
30°-40°	807.4	17.0	19.3	25°	1450	1443	1439	1439	1450	668
40°-50°	844.6	17.8	20.2	35°	1301	1293	1286	1285	1301	814
50°-60°	771.0	16.2	18.4	45°	1107	1098	1089	1089	1107	853
60°-70°	597.8	12.6	14.3	55°	874	868	855	856	874	781
70°-80°	358.9	7.6	8.6	65°	615	609	594	597	615	608
80°-90°	111.2	2.3	2.7	75°	346	345	328	334	346	367
90°-100°	2.7	0.1	0.1	85°	102	97	87	95	102	108
100°-110°	1.0	0.0	0.0	90°	7	7	3	11	7	16
110°-120°	0.9	0.0	0.0	95°	1	1	1	1	1	2
120°-130°	0.7	0.0	0.0	105°	1	1	1	1	1	1
130°-140°	0.7	0.0	0.0	115°	1	1	1	1	1	1
140°-150°	0.8	0.0	0.0	125°	1	1	1	1	1	1
150°-160°	0.7	0.0	0.0	135°	1	1	1	1	1	0
160°-170°	0.5	0.0	0.0	145°	1	1	1	1	1	1
170°-180°	0.2	0.0	0.0	155°	1	2	2	1	1	1
0°-30°	1253.8	26.4	30.0	165°	2	2	2	2	2	0
0°-40°	2061.2	43.4	49.3	175°	2	2	2	2	2	0
0°-60°	3676.8	77.4	88.0	180°	2	2	2	2	2	
0°-90°	4744.8	99.8	113.5							
90°-120°	4.6	0.1	0.1							
90°-150°	6.8	0.1	0.2							
90°-180°	8.0	0.2	0.2							
0°-180°	4753.0	100.0	113.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
5°	1601.4	1600.7	1601.5	1599.3	1599.8	1600.2	1599.4	1598.5	1599.5	1598.4	1599.4
10°	1583.1	1582.2	1581.2	1580.2	1580.5	1580.8	1578.7	1577.7	1578.3	1577.6	1579.2
15°	1551.0	1549.9	1549.5	1547.5	1548.4	1547.9	1545.6	1543.6	1544.0	1543.8	1545.0
20°	1507.0	1507.3	1505.7	1502.3	1501.6	1500.0	1499.7	1497.2	1498.6	1497.6	1498.6
25°	1449.6	1449.8	1448.0	1444.4	1443.4	1442.7	1440.5	1438.8	1439.0	1438.1	1439.2
30°	1380.9	1379.5	1377.7	1374.5	1373.4	1372.0	1369.5	1367.4	1367.6	1367.3	1369.1
35°	1300.9	1298.9	1297.3	1294.0	1292.6	1288.8	1286.3	1285.1	1285.7	1284.8	1285.8
40°	1208.7	1206.8	1206.5	1200.8	1200.1	1196.2	1193.2	1191.6	1191.5	1191.6	1193.3
45°	1106.8	1105.2	1103.0	1098.9	1097.6	1094.1	1091.1	1088.4	1088.8	1088.2	1090.0
50°	994.9	994.0	992.4	987.9	986.5	982.3	979.1	976.2	975.2	975.5	977.2
55°	874.5	874.3	872.5	867.5	867.9	862.5	858.2	855.2	855.1	855.1	856.0
60°	747.1	747.3	745.5	740.7	740.7	735.3	731.1	728.5	726.9	726.7	728.5
65°	614.6	615.6	614.5	609.8	609.4	604.2	599.5	595.6	594.2	593.7	596.7
70°	480.2	480.9	481.0	477.2	476.3	471.2	466.1	461.9	459.9	459.9	462.5
75°	346.5	347.3	348.6	345.3	345.1	340.1	335.3	330.7	328.0	328.9	331.9
80°	217.0	218.9	219.1	216.4	217.7	213.0	208.8	203.6	201.3	202.4	206.4
85°	101.5	101.8	98.6	95.1	97.0	93.4	89.9	88.1	86.8	87.4	90.8
90°	7.1	6.4	5.5	4.5	6.9	6.0	4.8	3.5	2.8	4.0	6.7
95°	1.3	1.4	1.0	0.9	0.6	0.6	0.8	1.2	1.1	1.1	0.7
100°	1.3	1.2	0.9	0.7	0.6	0.6	0.8	1.3	1.4	1.2	0.7
105°	1.2	1.0	0.9	0.6	0.6	0.7	1.0	1.5	1.4	1.6	0.8
110°	1.0	0.9	0.9	0.6	0.8	0.8	1.1	1.5	1.4	1.5	1.1
115°	0.9	0.6	0.9	0.6	0.8	0.9	1.4	1.3	1.4	1.5	1.3
120°	0.6	0.4	0.9	0.6	0.8	1.0	1.5	0.6	1.4	1.0	1.4
125°	0.6	0.4	0.9	0.6	0.9	1.0	1.5	0.6	0.8	0.7	1.5
130°	0.6	0.4	0.9	0.6	1.0	1.1	1.5	0.6	0.8	0.7	1.5
135°	0.6	0.4	0.9	0.6	1.0	1.2	1.5	0.7	0.8	0.8	1.5
140°	0.6	0.5	0.9	0.7	1.2	1.4	1.6	0.9	0.9	1.0	1.5
145°	1.2	1.0	0.9	1.3	1.4	1.6	1.6	1.1	1.1	1.0	1.5
150°	1.4	1.5	1.4	1.6	1.7	1.7	1.8	1.4	1.4	1.2	1.5
155°	1.4	1.5	1.5	1.6	1.8	1.9	2.1	1.6	1.7	1.7	1.5
160°	1.6	1.5	1.5	1.6	2.2	2.1	2.3	1.7	1.7	1.7	1.7
165°	1.5	1.5	1.5	1.6	2.3	2.3	2.4	1.7	1.7	1.7	1.7
170°	1.7	1.6	1.6	1.7	2.4	2.3	2.5	1.7	1.7	1.7	1.6
175°	1.7	1.6	1.9	1.9	2.4	2.3	2.5	1.7	1.7	1.7	1.6
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1606.6	1606.6	1606.6	1606.6	1606.6	1606.6
5°	1598.9	1598.4	1600.6	1600.3	1599.7	1601.4
10°	1578.6	1578.5	1580.0	1581.1	1581.6	1583.1
15°	1544.4	1545.0	1546.6	1548.5	1549.8	1551.0
20°	1497.8	1498.6	1500.9	1503.3	1504.3	1507.0
25°	1438.1	1438.6	1441.6	1444.4	1447.6	1449.6
30°	1368.1	1367.1	1371.6	1374.1	1378.6	1380.9
35°	1285.7	1285.1	1288.7	1292.9	1298.3	1300.9
40°	1192.6	1192.2	1196.2	1201.1	1206.1	1208.7
45°	1089.5	1088.8	1093.0	1097.7	1103.2	1106.8
50°	977.1	975.7	980.8	986.2	991.6	994.9
55°	856.8	855.7	859.8	866.1	870.2	874.5
60°	729.7	728.8	733.3	739.1	743.0	747.1
65°	597.8	597.2	602.6	607.8	611.8	614.6
70°	465.2	464.4	469.9	474.9	477.4	480.2
75°	335.3	334.0	338.2	342.5	344.4	346.5
80°	211.0	209.6	213.5	215.5	216.2	217.0
85°	95.6	94.7	97.8	99.8	100.4	101.5
90°	9.9	10.7	11.8	10.9	8.9	7.1
95°	0.6	1.0	0.9	1.0	1.3	1.3
100°	0.6	0.7	0.7	0.9	1.2	1.3
105°	0.6	0.6	0.7	0.9	1.1	1.2
110°	0.8	0.6	0.6	0.9	0.9	1.0
115°	0.9	0.6	0.6	0.9	0.7	0.9
120°	1.0	0.6	0.6	0.9	0.5	0.6
125°	1.0	0.6	0.6	0.9	0.5	0.6
130°	1.0	0.6	0.6	0.9	0.5	0.6
135°	1.1	0.6	0.6	0.9	0.5	0.6
140°	1.3	0.8	0.7	0.9	0.5	0.6
145°	1.5	1.4	1.2	0.9	1.0	1.2
150°	1.7	1.4	1.5	1.6	1.4	1.4
155°	1.8	1.4	1.5	1.5	1.4	1.4
160°	1.8	1.5	1.6	1.6	1.4	1.6
165°	1.8	1.5	1.6	1.6	1.4	1.5
170°	1.8	1.7	1.7	1.6	1.7	1.7
175°	1.8	2.1	2.2	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7	1.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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









(END OF REPORT)