

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: P293112

Luminaire Tested: **24GR-LD5-42-F1-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3875.0 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

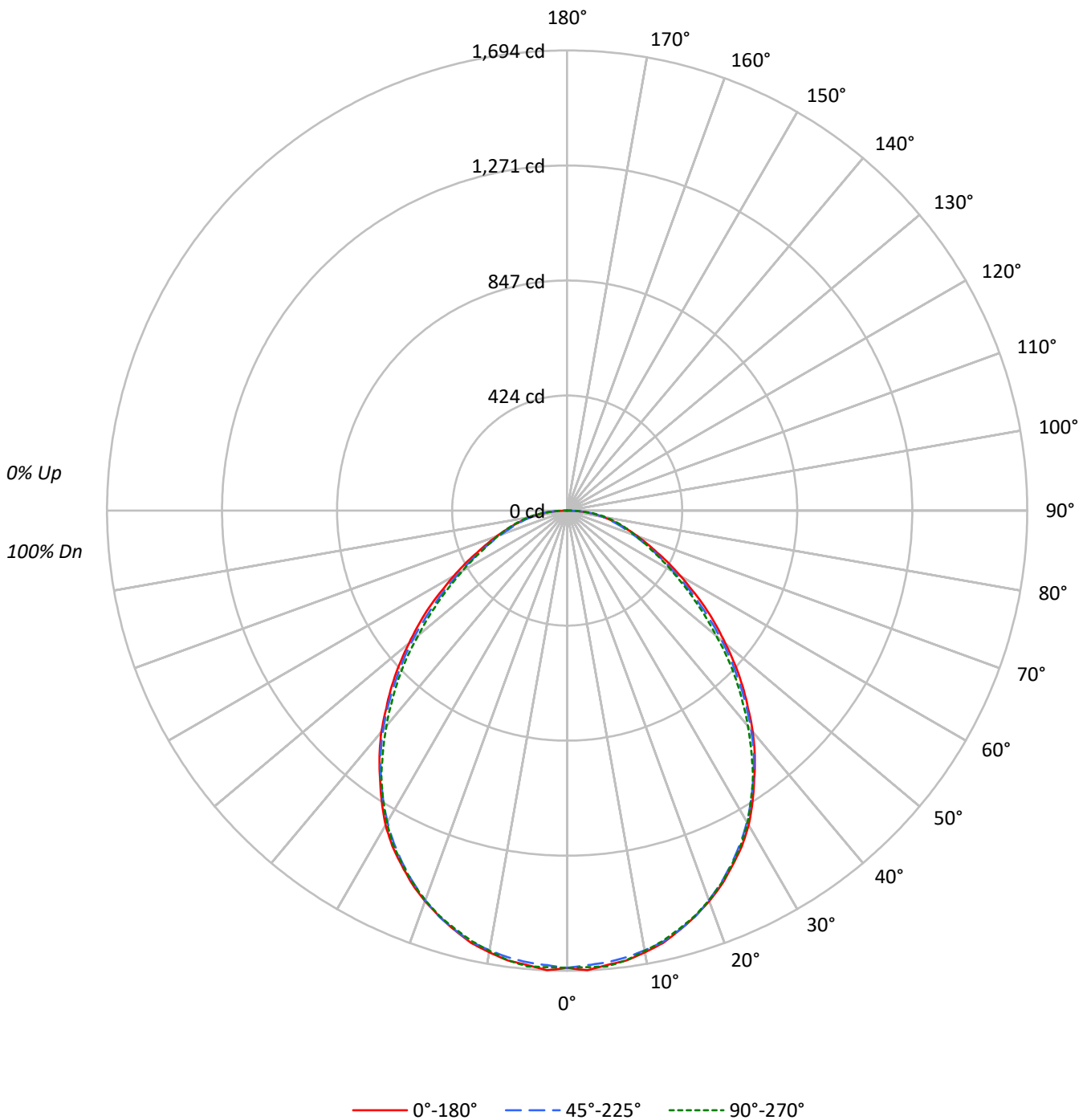
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2265	2265	2265
5°	2268	2255	2274
10°	2256	2246	2248
15°	2228	2226	2220
20°	2190	2186	2186
25°	2139	2127	2132
30°	2077	2056	2062
35°	1973	1964	1959
40°	1868	1852	1819
45°	1737	1706	1673
50°	1591	1556	1497
55°	1453	1387	1341
60°	1295	1232	1200
65°	1166	1104	1089
70°	1081	1016	1056
75°	1035	989	1072
80°	1034	1034	1146
85°	1073	1085	1209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	4.1
10°-20°	449.8	11.6
20°-30°	660.2	17.0
30°-40°	746.4	19.3
40°-50°	689.8	17.8
50°-60°	531.5	13.7
60°-70°	351.9	9.1
70°-80°	209.5	5.4
80°-90°	76.8	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
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°	1269.0	32.7
0°-40°	2015.4	52.0
0°-60°	3236.8	83.5
0°-90°	3875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1679	1679	1670	1670	1684	160
15°	1599	1596	1598	1597	1594	451
25°	1441	1437	1433	1431	1436	664
35°	1201	1200	1196	1190	1192	752
45°	913	906	897	881	879	703
55°	619	607	591	576	572	552
65°	366	360	347	344	342	367
75°	199	194	190	199	206	212
85°	70	66	70	78	78	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1683.2	1683.2	1683.2	1683.2	1683.2
2.5°	1693.6	1684.8	1675.2	1675.2	1682.4
5°	1679.2	1679.2	1669.6	1670.4	1684.0
7.5°	1670.4	1665.6	1659.2	1659.2	1669.6
10°	1651.2	1647.2	1644.0	1642.4	1645.6
12.5°	1630.5	1624.1	1626.5	1624.1	1623.3
15°	1599.3	1596.1	1597.7	1596.9	1593.7
17.5°	1565.7	1564.1	1567.3	1561.7	1564.1
20°	1529.8	1525.0	1526.6	1523.4	1526.6
22.5°	1489.0	1485.8	1481.8	1477.8	1484.2
25°	1441.0	1437.0	1433.0	1431.4	1436.2
27.5°	1393.1	1386.7	1381.1	1379.5	1386.7
30°	1337.1	1329.9	1323.5	1321.9	1327.5
32.5°	1270.8	1269.2	1261.2	1258.0	1260.4
35°	1201.3	1199.7	1195.7	1190.1	1192.5
37.5°	1134.9	1134.1	1128.5	1118.9	1112.5
40°	1063.8	1058.2	1054.2	1040.6	1035.8
42.5°	985.5	983.9	976.7	961.5	955.9
45°	912.7	906.3	896.8	880.8	879.2
47.5°	837.6	828.8	820.0	800.0	799.2
50°	760.1	753.7	743.3	723.3	715.3
52.5°	688.1	679.4	665.0	645.8	641.8
55°	619.4	606.6	591.4	575.5	571.5
57.5°	545.9	540.3	521.9	509.1	504.3
60°	481.1	476.3	458.0	446.0	446.0
62.5°	422.8	415.6	399.6	391.6	391.6
65°	366.1	360.5	346.9	343.7	342.1
67.5°	317.3	310.1	300.5	299.7	303.7
70°	274.9	266.1	258.2	266.1	268.5
72.5°	235.0	229.4	222.2	232.6	237.4
75°	199.0	194.2	190.2	199.0	206.2
77.5°	166.2	161.4	161.4	171.0	177.4
80°	133.5	130.3	133.5	141.5	147.9
82.5°	102.3	99.9	103.9	111.9	115.9
85°	69.5	65.5	70.3	77.5	78.3
87.5°	32.8	32.0	35.2	40.0	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)