

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: P294386

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4004.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

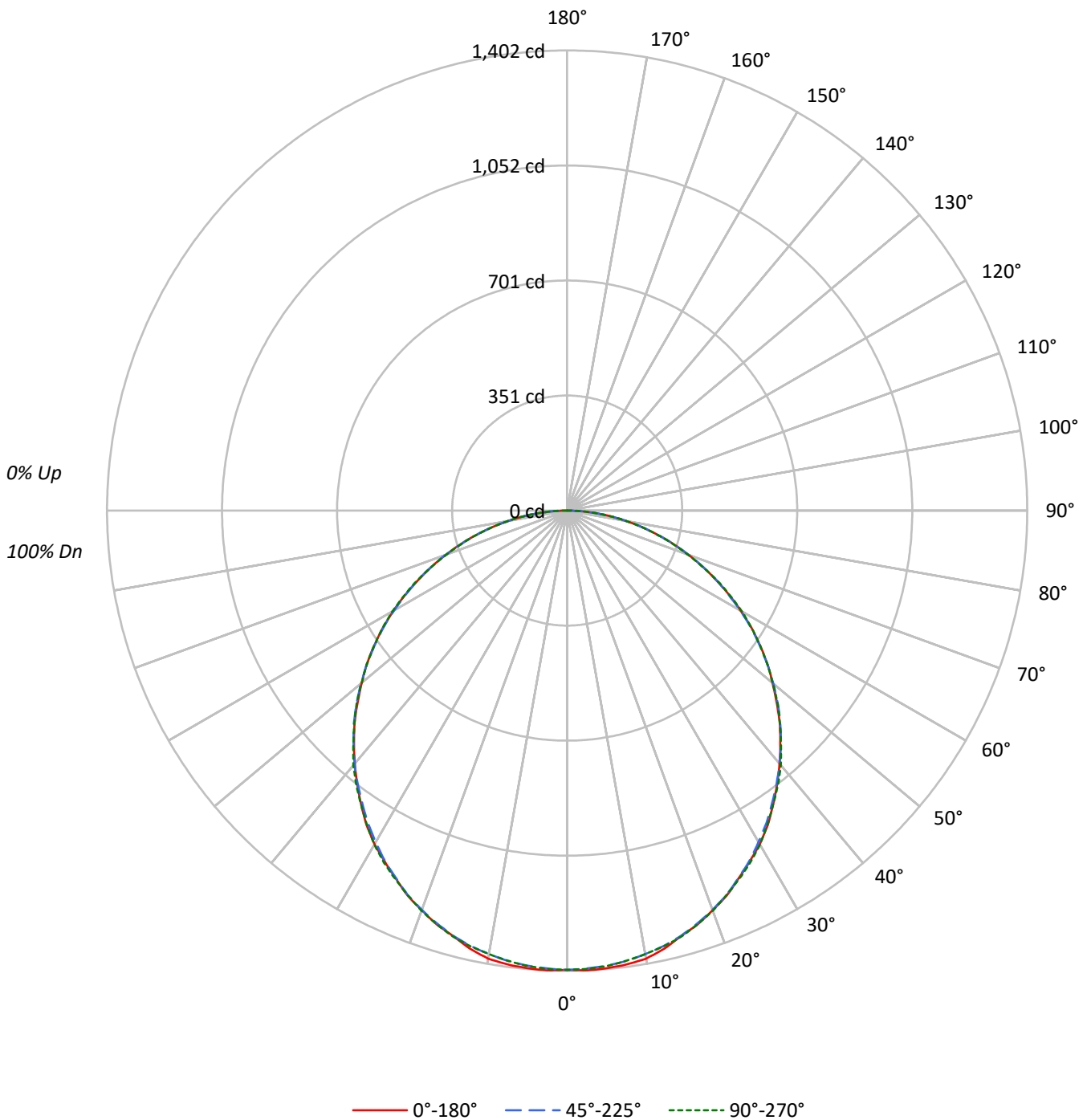
Input Watts (W): 38.595
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1883	1883	1883
5°	1890	1880	1881
10°	1894	1875	1875
15°	1869	1868	1872
20°	1855	1854	1858
25°	1835	1834	1839
30°	1824	1812	1825
35°	1798	1788	1798
40°	1768	1770	1780
45°	1743	1748	1745
50°	1710	1716	1712
55°	1684	1679	1684
60°	1644	1639	1654
65°	1593	1599	1606
70°	1542	1549	1538
75°	1487	1487	1487
80°	1405	1405	1420
85°	1297	1312	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	3.3
10°-20°	378.3	9.4
20°-30°	570.1	14.2
30°-40°	682.8	17.1
40°-50°	706.8	17.7
50°-60°	640.8	16.0
60°-70°	496.8	12.4
70°-80°	302.1	7.5
80°-90°	94.0	2.3
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°	1080.7	27.0
0°-40°	1763.4	44.0
0°-60°	3111.0	77.7
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1399	1391	1392	1390	1393	133
15°	1342	1343	1341	1336	1344	379
25°	1236	1236	1235	1239	1239	571
35°	1094	1087	1089	1094	1094	685
45°	916	918	919	915	917	706
55°	718	714	716	719	718	641
65°	500	503	502	500	504	496
75°	286	285	286	285	286	302
85°	84	83	85	84	82	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1402.3	1396.6	1396.6	1394.7	1397.6
5°	1399.4	1390.9	1391.9	1390.0	1392.8
7.5°	1394.7	1383.4	1384.3	1382.4	1383.4
10°	1386.2	1373.0	1372.1	1371.1	1372.1
12.5°	1367.3	1359.8	1358.8	1357.0	1359.8
15°	1341.8	1342.8	1340.9	1336.2	1343.7
17.5°	1322.0	1321.1	1319.2	1314.5	1322.0
20°	1295.6	1296.5	1294.6	1292.7	1297.5
22.5°	1270.1	1267.2	1268.2	1267.2	1268.2
25°	1236.1	1236.1	1235.1	1238.9	1238.9
27.5°	1204.9	1201.1	1203.0	1206.8	1208.7
30°	1173.8	1164.3	1166.2	1170.0	1174.7
32.5°	1136.9	1127.5	1129.4	1133.2	1135.0
35°	1094.4	1086.9	1088.8	1093.5	1094.4
37.5°	1051.0	1046.3	1048.2	1051.9	1054.8
40°	1006.6	1004.7	1007.6	1006.6	1013.2
42.5°	961.3	960.3	963.2	963.2	964.1
45°	916.0	917.9	918.8	915.0	916.9
47.5°	865.9	866.9	870.6	868.8	869.7
50°	816.8	815.9	819.6	820.6	817.8
52.5°	769.6	764.9	768.7	770.5	768.7
55°	717.7	713.9	715.8	718.6	717.7
57.5°	666.7	662.9	663.8	668.6	666.7
60°	611.0	610.0	609.1	612.8	614.7
62.5°	556.2	555.2	553.4	557.1	559.0
65°	500.5	503.3	502.4	500.5	504.3
67.5°	447.6	450.4	447.6	445.7	445.7
70°	391.9	394.7	393.8	391.9	390.9
72.5°	339.9	339.9	338.1	337.1	338.1
75°	286.1	285.2	286.1	285.2	286.1
77.5°	233.2	234.2	234.2	234.2	233.2
80°	181.3	181.3	181.3	182.2	183.2
82.5°	133.1	130.3	133.1	131.3	132.2
85°	84.0	83.1	85.0	84.0	82.2
87.5°	37.8	38.7	38.7	39.7	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)