

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: P294255

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294255
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-LD5-48-FGW080-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

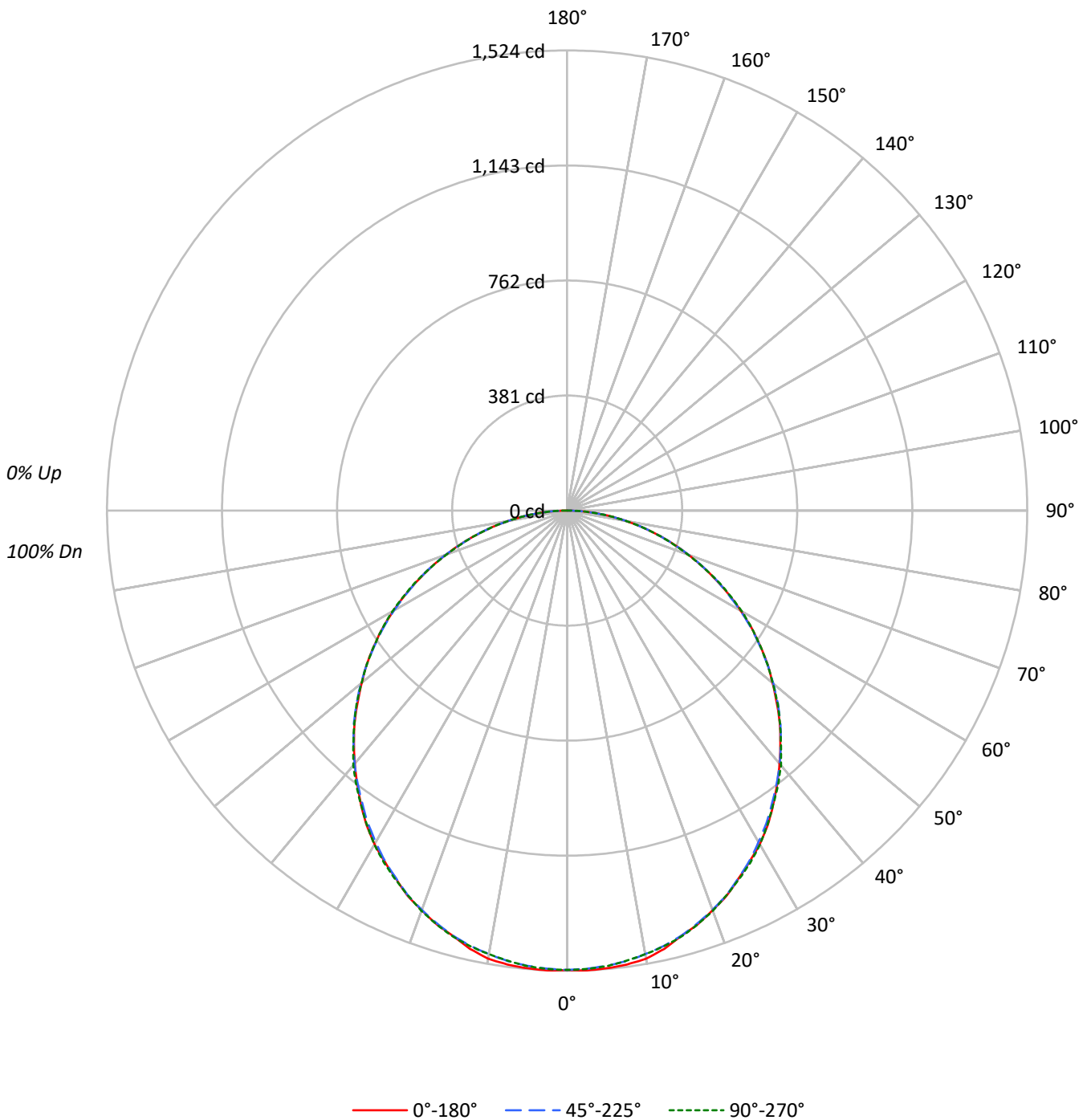
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2047	2047	2047
5°	2055	2044	2045
10°	2059	2038	2038
15°	2032	2031	2035
20°	2017	2015	2020
25°	1995	1993	2000
30°	1983	1970	1984
35°	1954	1944	1954
40°	1922	1924	1935
45°	1895	1901	1897
50°	1859	1865	1861
55°	1830	1825	1830
60°	1787	1782	1798
65°	1732	1739	1745
70°	1676	1684	1672
75°	1617	1617	1617
80°	1527	1527	1543
85°	1411	1426	1379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	3.3
10°-20°	411.2	9.4
20°-30°	619.7	14.2
30°-40°	742.3	17.1
40°-50°	768.4	17.7
50°-60°	696.7	16.0
60°-70°	540.1	12.4
70°-80°	328.5	7.5
80°-90°	102.2	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°	1174.9	27.0
0°-40°	1917.1	44.0
0°-60°	3382.2	77.7
0°-90°	4353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4353.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1521	1521	1521	1521	1521	
5°	1521	1512	1513	1511	1514	145
15°	1459	1460	1458	1453	1461	412
25°	1344	1344	1343	1347	1347	620
35°	1190	1182	1184	1189	1190	744
45°	996	998	999	995	997	767
55°	780	776	778	781	780	697
65°	544	547	546	544	548	540
75°	311	310	311	310	311	329
85°	91	90	92	91	89	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1521.4	1521.4	1521.4	1521.4	1521.4
2.5°	1524.5	1518.3	1518.3	1516.3	1519.4
5°	1521.4	1512.2	1513.2	1511.2	1514.2
7.5°	1516.3	1504.0	1505.0	1502.9	1504.0
10°	1507.1	1492.7	1491.7	1490.6	1491.7
12.5°	1486.5	1478.3	1477.3	1475.2	1478.3
15°	1458.8	1459.8	1457.8	1452.6	1460.9
17.5°	1437.2	1436.2	1434.2	1429.0	1437.2
20°	1408.5	1409.5	1407.5	1405.4	1410.6
22.5°	1380.8	1377.7	1378.7	1377.7	1378.7
25°	1343.8	1343.8	1342.8	1346.9	1346.9
27.5°	1309.9	1305.8	1307.9	1312.0	1314.0
30°	1276.1	1265.8	1267.9	1272.0	1277.1
32.5°	1236.0	1225.8	1227.8	1231.9	1234.0
35°	1189.8	1181.6	1183.7	1188.8	1189.8
37.5°	1142.6	1137.5	1139.5	1143.6	1146.7
40°	1094.4	1092.3	1095.4	1094.4	1101.5
42.5°	1045.1	1044.1	1047.1	1047.1	1048.2
45°	995.8	997.9	998.9	994.8	996.8
47.5°	941.4	942.4	946.5	944.5	945.5
50°	888.0	887.0	891.1	892.1	889.0
52.5°	836.7	831.5	835.7	837.7	835.7
55°	780.2	776.1	778.2	781.2	780.2
57.5°	724.8	720.7	721.7	726.8	724.8
60°	664.2	663.2	662.2	666.3	668.3
62.5°	604.7	603.6	601.6	605.7	607.7
65°	544.1	547.2	546.2	544.1	548.2
67.5°	486.6	489.7	486.6	484.6	484.6
70°	426.0	429.1	428.1	426.0	425.0
72.5°	369.6	369.6	367.5	366.5	367.5
75°	311.1	310.0	311.1	310.0	311.1
77.5°	253.6	254.6	254.6	254.6	253.6
80°	197.1	197.1	197.1	198.1	199.2
82.5°	144.8	141.7	144.8	142.7	143.7
85°	91.4	90.3	92.4	91.4	89.3
87.5°	41.1	42.1	42.1	43.1	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)