

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: P294391

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294391
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4612.0 lumens
Efficiency: N/A
Efficacy: 115.1 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

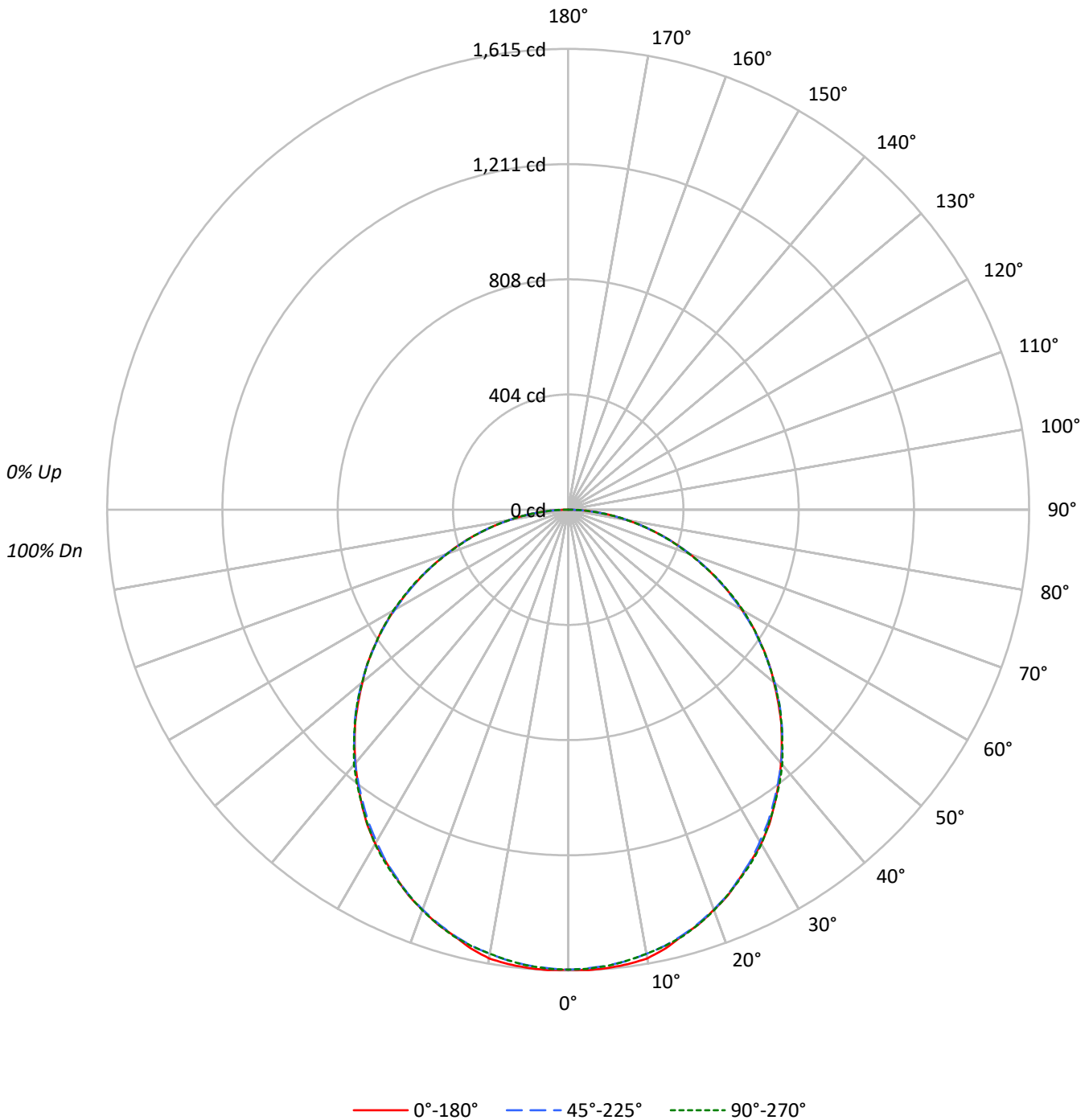
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2169	2169	2169
5°	2177	2165	2167
10°	2181	2159	2159
15°	2153	2151	2156
20°	2137	2135	2140
25°	2114	2112	2119
30°	2101	2087	2102
35°	2071	2060	2071
40°	2037	2038	2050
45°	2008	2014	2010
50°	1969	1976	1972
55°	1939	1934	1939
60°	1894	1888	1905
65°	1835	1842	1849
70°	1776	1784	1771
75°	1713	1713	1713
80°	1618	1618	1635
85°	1494	1511	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	3.3
10°-20°	435.7	9.4
20°-30°	656.6	14.2
30°-40°	786.5	17.1
40°-50°	814.1	17.7
50°-60°	738.1	16.0
60°-70°	572.3	12.4
70°-80°	348.0	7.5
80°-90°	108.3	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°	1244.8	27.0
0°-40°	2031.2	44.0
0°-60°	3583.4	77.7
0°-90°	4612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1612	1602	1603	1601	1604	153
15°	1546	1547	1544	1539	1548	437
25°	1424	1424	1423	1427	1427	657
35°	1261	1252	1254	1260	1261	789
45°	1055	1057	1058	1054	1056	813
55°	827	822	824	828	827	739
65°	576	580	579	576	581	572
75°	330	328	330	328	330	348
85°	97	96	98	97	95	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1615.2	1608.7	1608.7	1606.5	1609.8
5°	1611.9	1602.2	1603.2	1601.1	1604.3
7.5°	1606.5	1593.5	1594.5	1592.4	1593.5
10°	1596.7	1581.5	1580.4	1579.3	1580.4
12.5°	1575.0	1566.3	1565.2	1563.0	1566.3
15°	1545.6	1546.7	1544.5	1539.1	1547.8
17.5°	1522.8	1521.7	1519.5	1514.1	1522.8
20°	1492.3	1493.4	1491.2	1489.0	1494.5
22.5°	1462.9	1459.7	1460.8	1459.7	1460.8
25°	1423.8	1423.8	1422.7	1427.0	1427.0
27.5°	1387.9	1383.5	1385.7	1390.1	1392.2
30°	1352.0	1341.1	1343.3	1347.6	1353.1
32.5°	1309.6	1298.7	1300.9	1305.2	1307.4
35°	1260.6	1251.9	1254.1	1259.5	1260.6
37.5°	1210.6	1205.2	1207.3	1211.7	1214.9
40°	1159.5	1157.3	1160.6	1159.5	1167.1
42.5°	1107.3	1106.2	1109.4	1109.4	1110.5
45°	1055.1	1057.2	1058.3	1054.0	1056.1
47.5°	997.4	998.5	1002.8	1000.7	1001.8
50°	940.8	939.8	944.1	945.2	941.9
52.5°	886.5	881.0	885.4	887.5	885.4
55°	826.6	822.3	824.5	827.7	826.6
57.5°	767.9	763.6	764.6	770.1	767.9
60°	703.7	702.6	701.6	705.9	708.1
62.5°	640.6	639.6	637.4	641.7	643.9
65°	576.5	579.7	578.6	576.5	580.8
67.5°	515.6	518.8	515.6	513.4	513.4
70°	451.4	454.7	453.6	451.4	450.3
72.5°	391.6	391.6	389.4	388.3	389.4
75°	329.6	328.5	329.6	328.5	329.6
77.5°	268.7	269.7	269.7	269.7	268.7
80°	208.8	208.8	208.8	209.9	211.0
82.5°	153.4	150.1	153.4	151.2	152.3
85°	96.8	95.7	97.9	96.8	94.6
87.5°	43.5	44.6	44.6	45.7	45.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)