

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: P294247

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294247
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-LD5-42-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

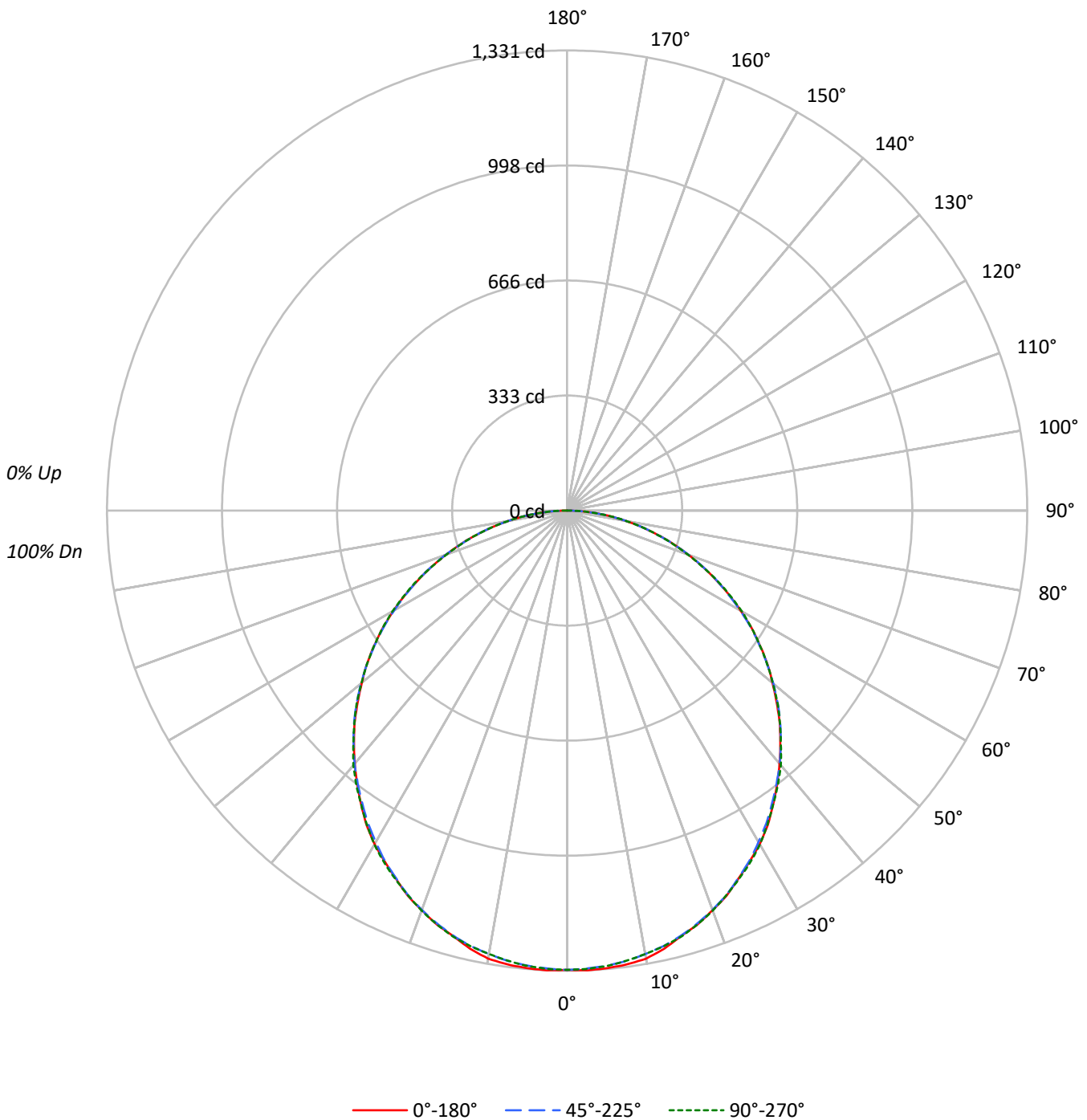
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1787	1787	1787
5°	1794	1785	1786
10°	1798	1780	1780
15°	1774	1773	1777
20°	1761	1760	1764
25°	1742	1741	1746
30°	1731	1720	1732
35°	1706	1698	1706
40°	1678	1680	1689
45°	1654	1660	1656
50°	1623	1629	1625
55°	1598	1594	1598
60°	1561	1556	1570
65°	1513	1518	1524
70°	1463	1471	1460
75°	1412	1412	1412
80°	1333	1333	1347
85°	1232	1246	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.3
10°-20°	359.1	9.4
20°-30°	541.2	14.2
30°-40°	648.2	17.1
40°-50°	670.9	17.7
50°-60°	608.4	16.0
60°-70°	471.6	12.4
70°-80°	286.8	7.5
80°-90°	89.2	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°	1025.9	27.0
0°-40°	1674.0	44.0
0°-60°	2953.3	77.7
0°-90°	3801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1328	1320	1321	1320	1322	126
15°	1274	1275	1273	1268	1276	360
25°	1173	1173	1172	1176	1176	542
35°	1039	1032	1034	1038	1039	650
45°	870	871	872	869	870	670
55°	681	678	680	682	681	609
65°	475	478	477	475	479	471
75°	272	271	272	271	272	287
85°	80	79	81	80	78	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.5	1328.5	1328.5	1328.5	1328.5
2.5°	1331.2	1325.8	1325.8	1324.0	1326.7
5°	1328.5	1320.4	1321.3	1319.5	1322.2
7.5°	1324.0	1313.3	1314.2	1312.4	1313.3
10°	1315.9	1303.4	1302.5	1301.6	1302.5
12.5°	1298.0	1290.8	1289.9	1288.2	1290.8
15°	1273.8	1274.7	1272.9	1268.4	1275.6
17.5°	1255.0	1254.1	1252.3	1247.8	1255.0
20°	1229.9	1230.8	1229.0	1227.2	1231.7
22.5°	1205.7	1203.0	1203.9	1203.0	1203.9
25°	1173.4	1173.4	1172.5	1176.1	1176.1
27.5°	1143.8	1140.2	1142.0	1145.6	1147.4
30°	1114.2	1105.3	1107.1	1110.7	1115.1
32.5°	1079.3	1070.3	1072.1	1075.7	1077.5
35°	1038.9	1031.8	1033.6	1038.1	1038.9
37.5°	997.7	993.2	995.0	998.6	1001.3
40°	955.6	953.8	956.5	955.6	961.9
42.5°	912.6	911.7	914.3	914.3	915.2
45°	869.5	871.3	872.2	868.6	870.4
47.5°	822.0	822.9	826.5	824.7	825.6
50°	775.4	774.5	778.1	779.0	776.3
52.5°	730.6	726.1	729.7	731.5	729.7
55°	681.3	677.7	679.5	682.2	681.3
57.5°	632.9	629.3	630.2	634.7	632.9
60°	580.0	579.1	578.2	581.8	583.6
62.5°	528.0	527.1	525.3	528.9	530.7
65°	475.1	477.8	476.9	475.1	478.7
67.5°	424.9	427.6	424.9	423.1	423.1
70°	372.0	374.7	373.8	372.0	371.1
72.5°	322.7	322.7	320.9	320.0	320.9
75°	271.6	270.7	271.6	270.7	271.6
77.5°	221.4	222.3	222.3	222.3	221.4
80°	172.1	172.1	172.1	173.0	173.9
82.5°	126.4	123.7	126.4	124.6	125.5
85°	79.8	78.9	80.7	79.8	78.0
87.5°	35.9	36.8	36.8	37.6	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)