

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: P294241

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294241
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

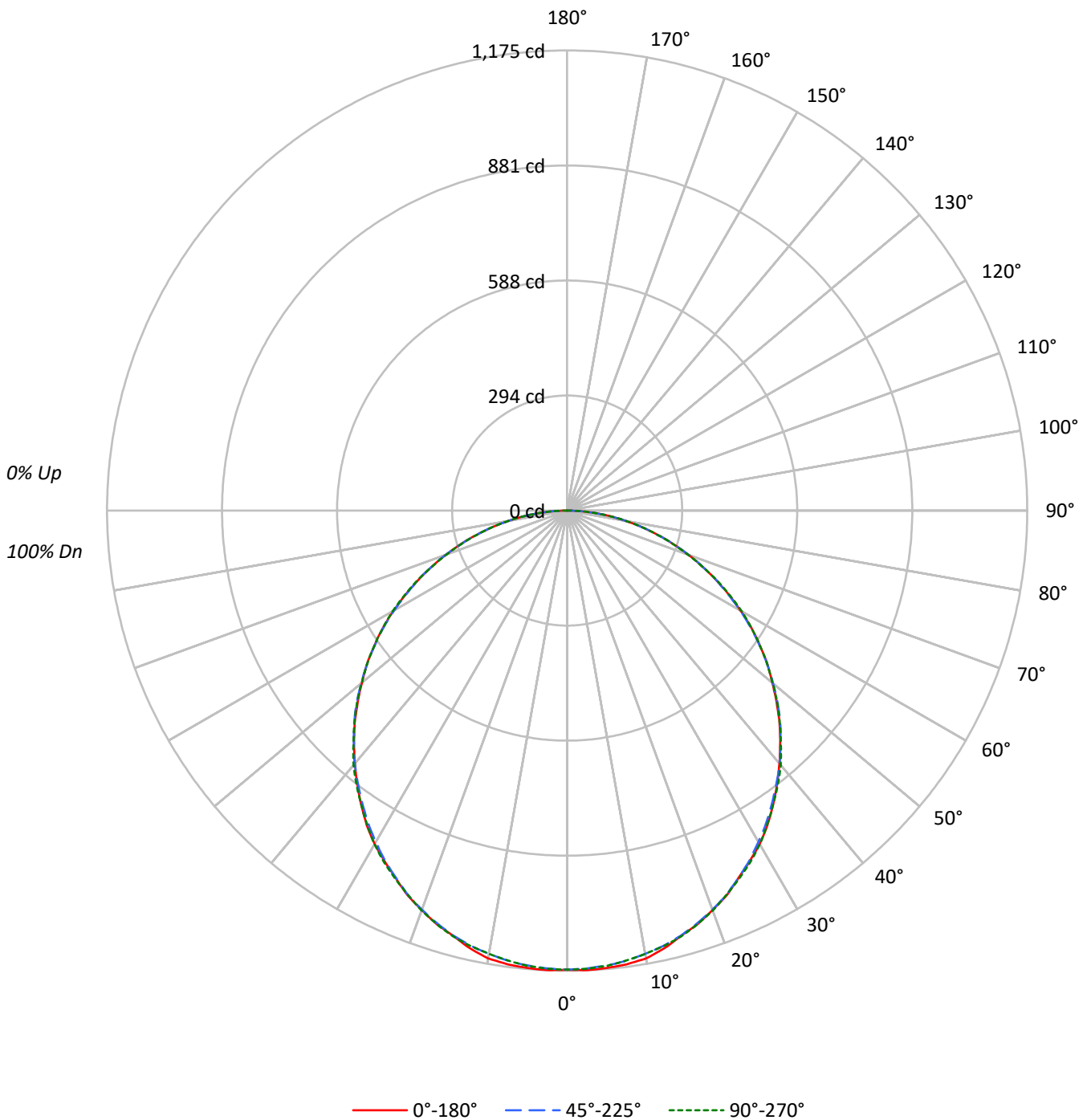
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1577	1577	1577
5°	1583	1575	1576
10°	1586	1570	1570
15°	1566	1565	1568
20°	1554	1553	1556
25°	1537	1536	1541
30°	1528	1518	1529
35°	1506	1498	1506
40°	1481	1482	1491
45°	1460	1464	1462
50°	1432	1437	1434
55°	1410	1407	1410
60°	1377	1373	1386
65°	1335	1340	1345
70°	1292	1297	1288
75°	1246	1246	1246
80°	1177	1177	1189
85°	1087	1099	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.3
10°-20°	316.9	9.4
20°-30°	477.5	14.2
30°-40°	571.9	17.1
40°-50°	592.0	17.7
50°-60°	536.8	16.0
60°-70°	416.2	12.4
70°-80°	253.1	7.5
80°-90°	78.7	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°	905.2	27.0
0°-40°	1477.2	44.0
0°-60°	2606.0	77.7
0°-90°	3354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1172	1165	1166	1164	1167	112
15°	1124	1125	1123	1119	1126	318
25°	1035	1035	1035	1038	1038	478
35°	917	910	912	916	917	574
45°	767	769	770	766	768	591
55°	601	598	600	602	601	537
65°	419	422	421	419	422	416
75°	240	239	240	239	240	253
85°	70	70	71	70	69	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1174.6	1169.9	1169.9	1168.3	1170.7
5°	1172.3	1165.1	1165.9	1164.4	1166.7
7.5°	1168.3	1158.8	1159.6	1158.0	1158.8
10°	1161.2	1150.1	1149.3	1148.5	1149.3
12.5°	1145.4	1139.0	1138.2	1136.7	1139.0
15°	1124.0	1124.8	1123.2	1119.3	1125.6
17.5°	1107.4	1106.6	1105.0	1101.1	1107.4
20°	1085.3	1086.0	1084.5	1082.9	1086.8
22.5°	1063.9	1061.5	1062.3	1061.5	1062.3
25°	1035.4	1035.4	1034.6	1037.8	1037.8
27.5°	1009.3	1006.2	1007.7	1010.9	1012.5
30°	983.2	975.3	976.9	980.0	984.0
32.5°	952.4	944.5	946.0	949.2	950.8
35°	916.8	910.4	912.0	916.0	916.8
37.5°	880.4	876.4	878.0	881.2	883.5
40°	843.2	841.6	844.0	843.2	848.7
42.5°	805.2	804.4	806.8	806.8	807.6
45°	767.3	768.9	769.6	766.5	768.1
47.5°	725.3	726.1	729.3	727.7	728.5
50°	684.2	683.4	686.6	687.4	685.0
52.5°	644.7	640.7	643.9	645.5	643.9
55°	601.2	598.0	599.6	602.0	601.2
57.5°	558.4	555.3	556.1	560.0	558.4
60°	511.8	511.0	510.2	513.4	514.9
62.5°	465.9	465.1	463.5	466.7	468.3
65°	419.2	421.6	420.8	419.2	422.4
67.5°	374.9	377.3	374.9	373.4	373.4
70°	328.3	330.6	329.8	328.3	327.5
72.5°	284.8	284.8	283.2	282.4	283.2
75°	239.7	238.9	239.7	238.9	239.7
77.5°	195.4	196.2	196.2	196.2	195.4
80°	151.9	151.9	151.9	152.7	153.5
82.5°	111.5	109.2	111.5	109.9	110.7
85°	70.4	69.6	71.2	70.4	68.8
87.5°	31.6	32.4	32.4	33.2	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)