

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: P294243

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294243
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3570.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

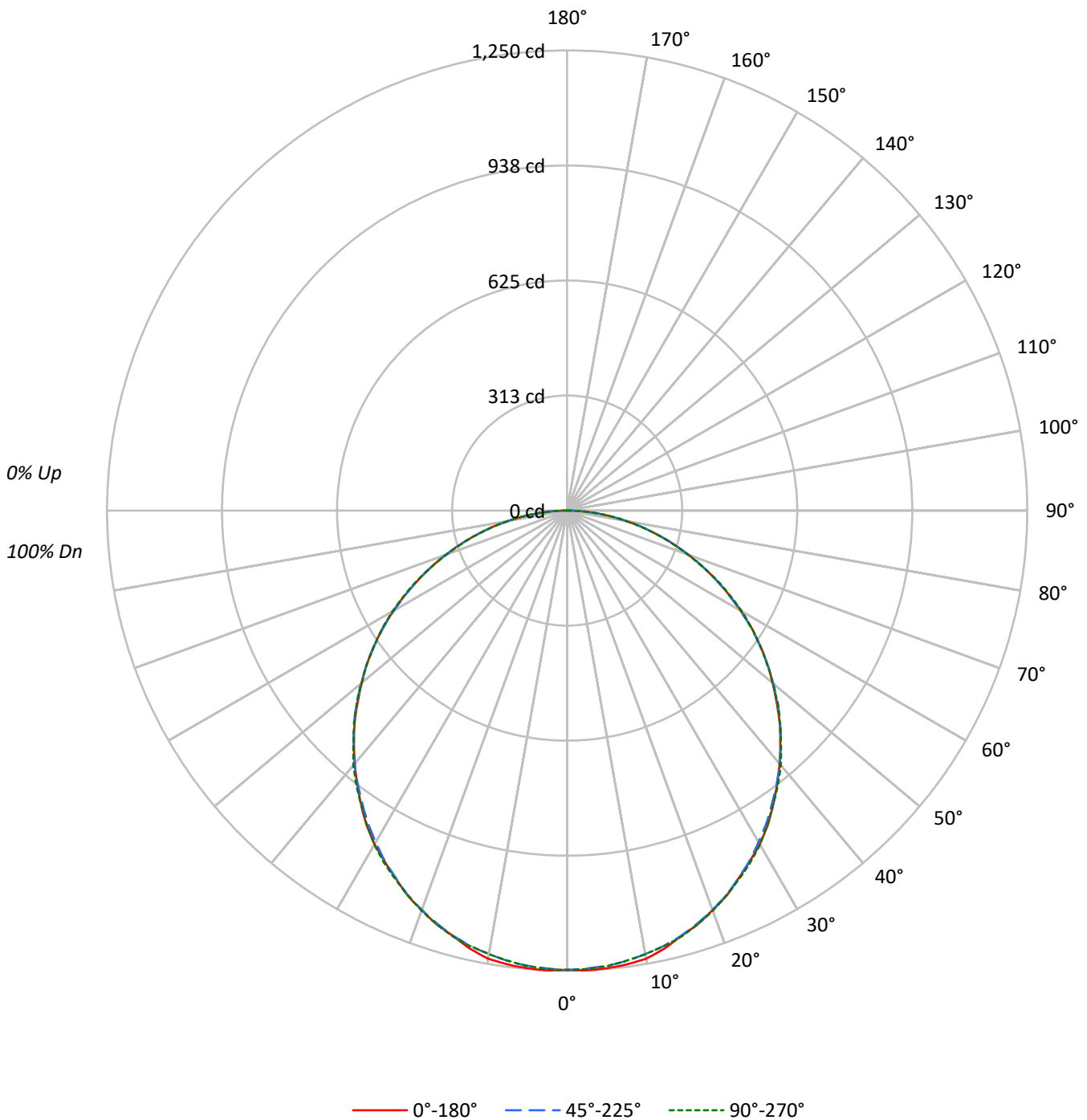
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1679	1679	1679
5°	1685	1676	1677
10°	1689	1671	1671
15°	1667	1665	1669
20°	1654	1653	1656
25°	1636	1635	1640
30°	1626	1615	1627
35°	1603	1595	1603
40°	1576	1578	1587
45°	1554	1559	1556
50°	1524	1530	1526
55°	1501	1497	1501
60°	1466	1461	1475
65°	1421	1426	1431
70°	1375	1381	1371
75°	1326	1326	1326
80°	1253	1253	1265
85°	1156	1170	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	3.3
10°-20°	337.3	9.4
20°-30°	508.3	14.2
30°-40°	608.8	17.1
40°-50°	630.2	17.7
50°-60°	571.4	16.0
60°-70°	443.0	12.4
70°-80°	269.4	7.5
80°-90°	83.8	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°	963.5	27.0
0°-40°	1572.3	44.0
0°-60°	2773.8	77.7
0°-90°	3570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3570.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1248	1240	1241	1239	1242	119
15°	1196	1197	1196	1191	1198	338
25°	1102	1102	1101	1105	1105	509
35°	976	969	971	975	976	610
45°	817	818	819	816	818	629
55°	640	636	638	641	640	572
65°	446	449	448	446	450	443
75°	255	254	255	254	255	270
85°	75	74	76	75	73	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.8	1247.8	1247.8	1247.8	1247.8
2.5°	1250.3	1245.2	1245.2	1243.5	1246.1
5°	1247.8	1240.2	1241.0	1239.3	1241.9
7.5°	1243.5	1233.4	1234.3	1232.6	1233.4
10°	1236.0	1224.2	1223.3	1222.5	1223.3
12.5°	1219.1	1212.4	1211.6	1209.9	1212.4
15°	1196.4	1197.2	1195.6	1191.3	1198.1
17.5°	1178.7	1177.9	1176.2	1172.0	1178.7
20°	1155.1	1156.0	1154.3	1152.6	1156.8
22.5°	1132.4	1129.9	1130.7	1129.9	1130.7
25°	1102.1	1102.1	1101.3	1104.6	1104.6
27.5°	1074.3	1070.9	1072.6	1076.0	1077.7
30°	1046.5	1038.1	1039.8	1043.2	1047.4
32.5°	1013.7	1005.3	1007.0	1010.3	1012.0
35°	975.8	969.1	970.8	975.0	975.8
37.5°	937.1	932.9	934.6	937.9	940.4
40°	897.5	895.8	898.4	897.5	903.4
42.5°	857.1	856.3	858.8	858.8	859.6
45°	816.7	818.4	819.2	815.8	817.5
47.5°	772.1	772.9	776.3	774.6	775.4
50°	728.3	727.4	730.8	731.6	729.1
52.5°	686.2	682.0	685.3	687.0	685.3
55°	639.9	636.5	638.2	640.7	639.9
57.5°	594.4	591.0	591.9	596.1	594.4
60°	544.7	543.9	543.1	546.4	548.1
62.5°	495.9	495.1	493.4	496.7	498.4
65°	446.2	448.8	447.9	446.2	449.6
67.5°	399.1	401.6	399.1	397.4	397.4
70°	349.4	351.9	351.1	349.4	348.6
72.5°	303.1	303.1	301.4	300.6	301.4
75°	255.1	254.3	255.1	254.3	255.1
77.5°	208.0	208.8	208.8	208.8	208.0
80°	161.7	161.7	161.7	162.5	163.3
82.5°	118.7	116.2	118.7	117.0	117.9
85°	74.9	74.1	75.8	74.9	73.2
87.5°	33.7	34.5	34.5	35.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)