

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: P294370

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294370
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-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3228.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

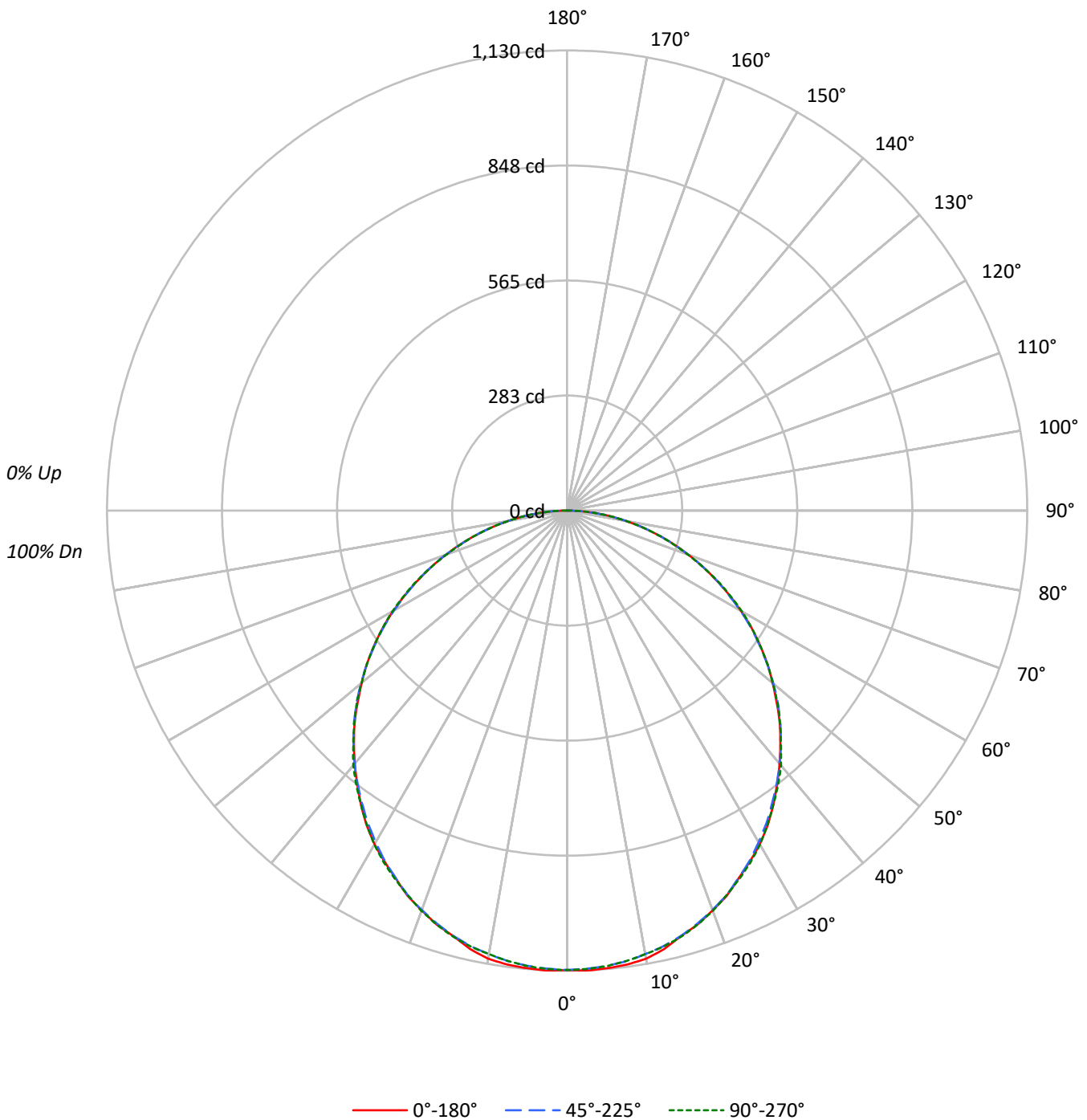
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1518	1518	1518
5°	1524	1516	1517
10°	1527	1511	1511
15°	1507	1506	1509
20°	1496	1494	1498
25°	1479	1478	1483
30°	1470	1461	1471
35°	1449	1442	1449
40°	1425	1427	1435
45°	1405	1409	1407
50°	1378	1383	1380
55°	1357	1354	1357
60°	1326	1321	1334
65°	1285	1289	1294
70°	1243	1249	1240
75°	1199	1199	1199
80°	1133	1133	1144
85°	1047	1057	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.3
10°-20°	305.0	9.4
20°-30°	459.6	14.2
30°-40°	550.5	17.1
40°-50°	569.8	17.7
50°-60°	516.6	16.0
60°-70°	400.5	12.4
70°-80°	243.6	7.5
80°-90°	75.8	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°	871.2	27.0
0°-40°	1421.7	44.0
0°-60°	2508.1	77.7
0°-90°	3228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1128	1121	1122	1121	1123	107
15°	1082	1082	1081	1077	1083	306
25°	996	996	996	999	999	460
35°	882	876	878	882	882	552
45°	738	740	741	738	739	569
55°	579	576	577	579	579	517
65°	404	406	405	404	406	400
75°	231	230	231	230	231	244
85°	68	67	68	68	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1130.5	1125.9	1125.9	1124.4	1126.7
5°	1128.2	1121.4	1122.1	1120.6	1122.9
7.5°	1124.4	1115.3	1116.0	1114.5	1115.3
10°	1117.6	1106.9	1106.1	1105.4	1106.1
12.5°	1102.3	1096.2	1095.5	1094.0	1096.2
15°	1081.8	1082.5	1081.0	1077.2	1083.3
17.5°	1065.8	1065.0	1063.5	1059.7	1065.8
20°	1044.5	1045.2	1043.7	1042.2	1046.0
22.5°	1023.9	1021.6	1022.4	1021.6	1022.4
25°	996.5	996.5	995.8	998.8	998.8
27.5°	971.4	968.4	969.9	972.9	974.4
30°	946.3	938.7	940.2	943.2	947.0
32.5°	916.6	909.0	910.5	913.5	915.1
35°	882.3	876.2	877.8	881.6	882.3
37.5°	847.3	843.5	845.0	848.1	850.4
40°	811.5	810.0	812.3	811.5	816.9
42.5°	775.0	774.2	776.5	776.5	777.3
45°	738.4	740.0	740.7	737.7	739.2
47.5°	698.1	698.9	701.9	700.4	701.1
50°	658.5	657.7	660.8	661.6	659.3
52.5°	620.4	616.6	619.7	621.2	619.7
55°	578.6	575.5	577.1	579.3	578.6
57.5°	537.5	534.4	535.2	539.0	537.5
60°	492.6	491.8	491.0	494.1	495.6
62.5°	448.4	447.6	446.1	449.2	450.7
65°	403.5	405.8	405.0	403.5	406.5
67.5°	360.8	363.1	360.8	359.3	359.3
70°	315.9	318.2	317.5	315.9	315.2
72.5°	274.1	274.1	272.5	271.8	272.5
75°	230.7	229.9	230.7	229.9	230.7
77.5°	188.0	188.8	188.8	188.8	188.0
80°	146.2	146.2	146.2	146.9	147.7
82.5°	107.3	105.1	107.3	105.8	106.6
85°	67.8	67.0	68.5	67.8	66.2
87.5°	30.5	31.2	31.2	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)