

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: P294177

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294177
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-LD5-34-FGW080-UNV-L83050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3226.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

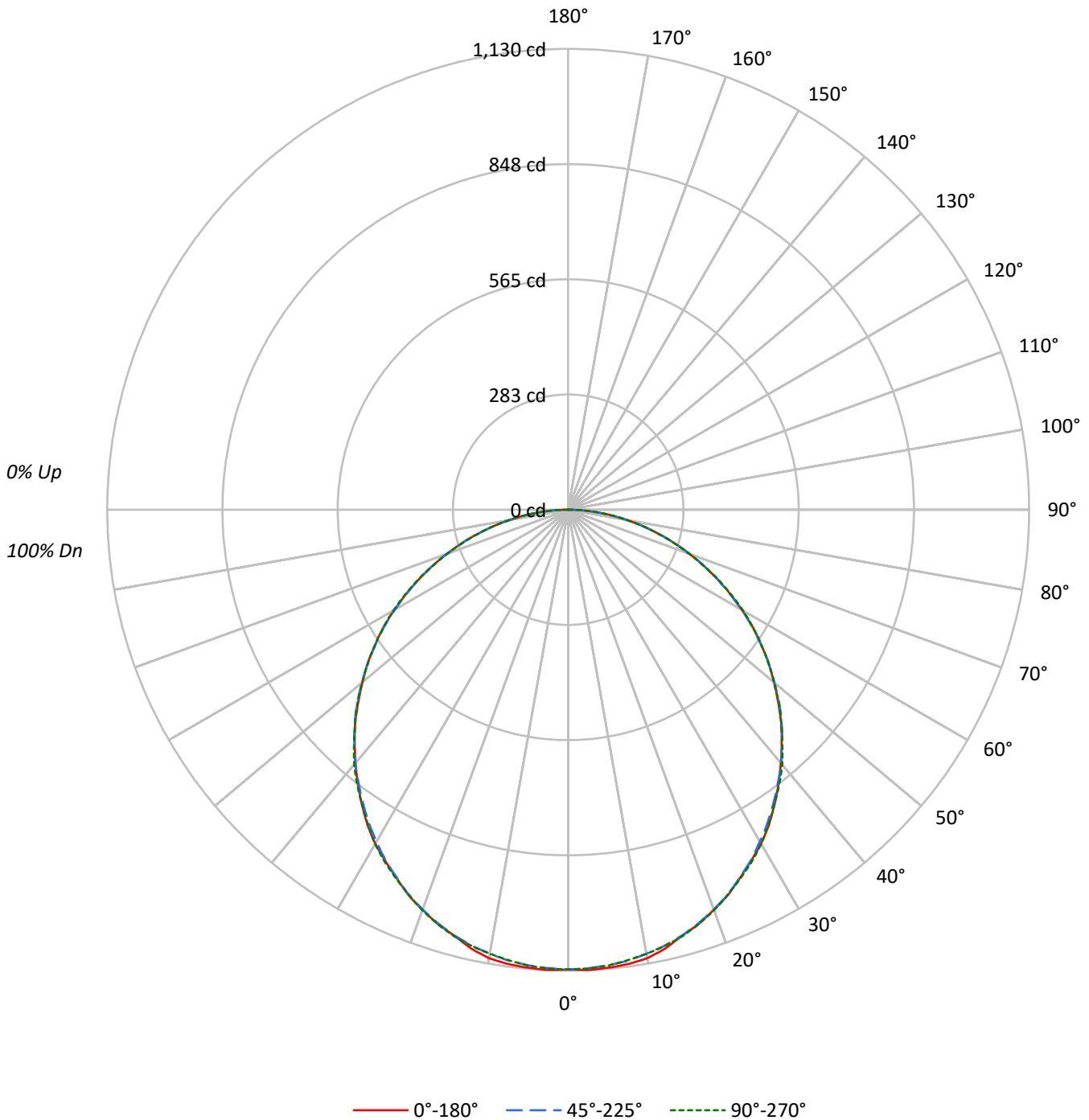
Input Watts (W): 24.087
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1517	1517	1517
5°	1523	1515	1516
10°	1526	1510	1510
15°	1506	1505	1508
20°	1495	1494	1497
25°	1478	1477	1482
30°	1469	1460	1471
35°	1448	1441	1448
40°	1424	1426	1434
45°	1404	1409	1406
50°	1378	1382	1379
55°	1356	1353	1356
60°	1324	1320	1333
65°	1284	1289	1294
70°	1242	1248	1239
75°	1198	1198	1198
80°	1132	1132	1144
85°	1045	1057	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	3.3
10°-20°	304.8	9.4
20°-30°	459.3	14.2
30°-40°	550.1	17.1
40°-50°	569.4	17.7
50°-60°	516.3	16.0
60°-70°	400.3	12.4
70°-80°	243.4	7.5
80°-90°	75.7	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°	870.7	27.0
0°-40°	1420.8	44.0
0°-60°	2506.5	77.7
0°-90°	3226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1128	1121	1121	1120	1122	107
15°	1081	1082	1080	1076	1083	306
25°	996	996	995	998	998	460
35°	882	876	877	881	882	552
45°	738	740	740	737	739	569
55°	578	575	577	579	578	517
65°	403	406	405	403	406	400
75°	230	230	230	230	230	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°	1127.5	1127.5	1127.5	1127.5	1127.5
2.5°	1129.8	1125.2	1125.2	1123.7	1126.0
5°	1127.5	1120.7	1121.4	1119.9	1122.2
7.5°	1123.7	1114.6	1115.4	1113.8	1114.6
10°	1116.9	1106.2	1105.5	1104.7	1105.5
12.5°	1101.7	1095.6	1094.8	1093.3	1095.6
15°	1081.1	1081.9	1080.4	1076.5	1082.6
17.5°	1065.1	1064.4	1062.9	1059.1	1065.1
20°	1043.8	1044.6	1043.1	1041.6	1045.4
22.5°	1023.3	1021.0	1021.8	1021.0	1021.8
25°	995.9	995.9	995.1	998.2	998.2
27.5°	970.8	967.8	969.3	972.3	973.8
30°	945.7	938.1	939.6	942.6	946.5
32.5°	916.0	908.4	909.9	913.0	914.5
35°	881.8	875.7	877.2	881.0	881.8
37.5°	846.8	843.0	844.5	847.5	849.8
40°	811.0	809.5	811.8	811.0	816.4
42.5°	774.5	773.7	776.0	776.0	776.8
45°	738.0	739.5	740.3	737.2	738.7
47.5°	697.7	698.4	701.5	699.9	700.7
50°	658.1	657.3	660.4	661.1	658.9
52.5°	620.1	616.3	619.3	620.8	619.3
55°	578.2	575.2	576.7	579.0	578.2
57.5°	537.1	534.1	534.9	538.7	537.1
60°	492.2	491.5	490.7	493.8	495.3
62.5°	448.1	447.4	445.8	448.9	450.4
65°	403.2	405.5	404.8	403.2	406.3
67.5°	360.6	362.9	360.6	359.1	359.1
70°	315.7	318.0	317.3	315.7	315.0
72.5°	273.9	273.9	272.4	271.6	272.4
75°	230.5	229.8	230.5	229.8	230.5
77.5°	187.9	188.7	188.7	188.7	187.9
80°	146.1	146.1	146.1	146.8	147.6
82.5°	107.3	105.0	107.3	105.8	106.5
85°	67.7	67.0	68.5	67.7	66.2
87.5°	30.4	31.2	31.2	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)