

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: P294210

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294210
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-LD5-85-FGW080-UNV-L83050-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: 7227.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

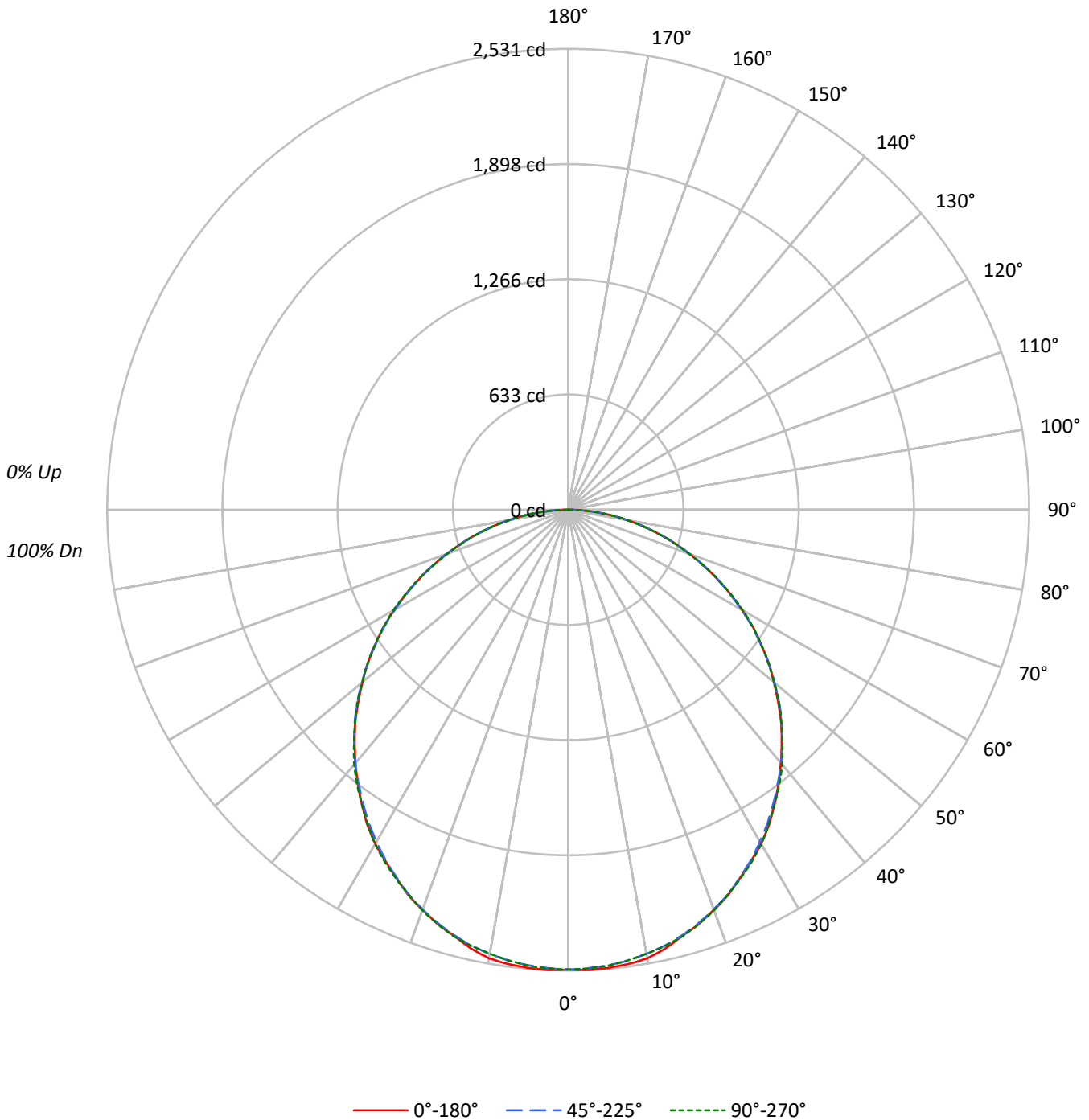
Input Watts (W): 62.403
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3399	3399	3399
5°	3412	3393	3395
10°	3418	3384	3384
15°	3374	3371	3378
20°	3348	3346	3353
25°	3312	3310	3320
30°	3292	3270	3294
35°	3245	3228	3245
40°	3191	3194	3212
45°	3146	3156	3149
50°	3086	3097	3090
55°	3039	3031	3039
60°	2967	2958	2986
65°	2876	2887	2897
70°	2782	2796	2776
75°	2685	2685	2685
80°	2535	2535	2562
85°	2342	2368	2289



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	3.3
10°-20°	682.8	9.4
20°-30°	1028.9	14.2
30°-40°	1232.4	17.1
40°-50°	1275.7	17.7
50°-60°	1156.7	16.0
60°-70°	896.7	12.4
70°-80°	545.3	7.5
80°-90°	169.7	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°	1950.5	27.0
0°-40°	3182.9	44.0
0°-60°	5615.2	77.7
0°-90°	7227.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7227.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2526	2526	2526	2526	2526	
5°	2526	2511	2512	2509	2514	240
15°	2422	2424	2420	2412	2425	685
25°	2231	2231	2229	2236	2236	1030
35°	1975	1962	1965	1974	1975	1236
45°	1653	1657	1658	1652	1655	1274
55°	1295	1288	1292	1297	1295	1158
65°	903	908	907	903	910	896
75°	516	515	516	515	516	546
85°	152	150	153	152	148	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2525.9	2525.9	2525.9	2525.9	2525.9
2.5°	2531.0	2520.8	2520.8	2517.4	2522.5
5°	2525.9	2510.6	2512.3	2508.9	2514.0
7.5°	2517.4	2496.9	2498.6	2495.2	2496.9
10°	2502.1	2478.2	2476.5	2474.8	2476.5
12.5°	2468.0	2454.3	2452.6	2449.2	2454.3
15°	2422.0	2423.7	2420.2	2411.7	2425.4
17.5°	2386.2	2384.5	2381.0	2372.5	2386.2
20°	2338.4	2340.1	2336.7	2333.3	2341.8
22.5°	2292.4	2287.3	2289.0	2287.3	2289.0
25°	2231.1	2231.1	2229.4	2236.2	2236.2
27.5°	2174.8	2168.0	2171.4	2178.2	2181.6
30°	2118.6	2101.5	2104.9	2111.8	2120.3
32.5°	2052.1	2035.1	2038.5	2045.3	2048.7
35°	1975.4	1961.8	1965.2	1973.7	1975.4
37.5°	1897.0	1888.5	1891.9	1898.7	1903.8
40°	1816.9	1813.5	1818.6	1816.9	1828.8
42.5°	1735.1	1733.4	1738.5	1738.5	1740.2
45°	1653.3	1656.7	1658.4	1651.6	1655.0
47.5°	1562.9	1564.6	1571.5	1568.0	1569.8
50°	1474.3	1472.6	1479.4	1481.1	1476.0
52.5°	1389.1	1380.6	1387.4	1390.8	1387.4
55°	1295.3	1288.5	1291.9	1297.0	1295.3
57.5°	1203.3	1196.5	1198.2	1206.7	1203.3
60°	1102.7	1101.0	1099.3	1106.2	1109.6
62.5°	1003.9	1002.2	998.8	1005.6	1009.0
65°	903.3	908.4	906.7	903.3	910.1
67.5°	807.9	813.0	807.9	804.5	804.5
70°	707.3	712.4	710.7	707.3	705.6
72.5°	613.6	613.6	610.2	608.5	610.2
75°	516.4	514.7	516.4	514.7	516.4
77.5°	421.0	422.7	422.7	422.7	421.0
80°	327.2	327.2	327.2	328.9	330.7
82.5°	240.3	235.2	240.3	236.9	238.6
85°	151.7	150.0	153.4	151.7	148.3
87.5°	68.2	69.9	69.9	71.6	71.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)