

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: P294419

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294419
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6814.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

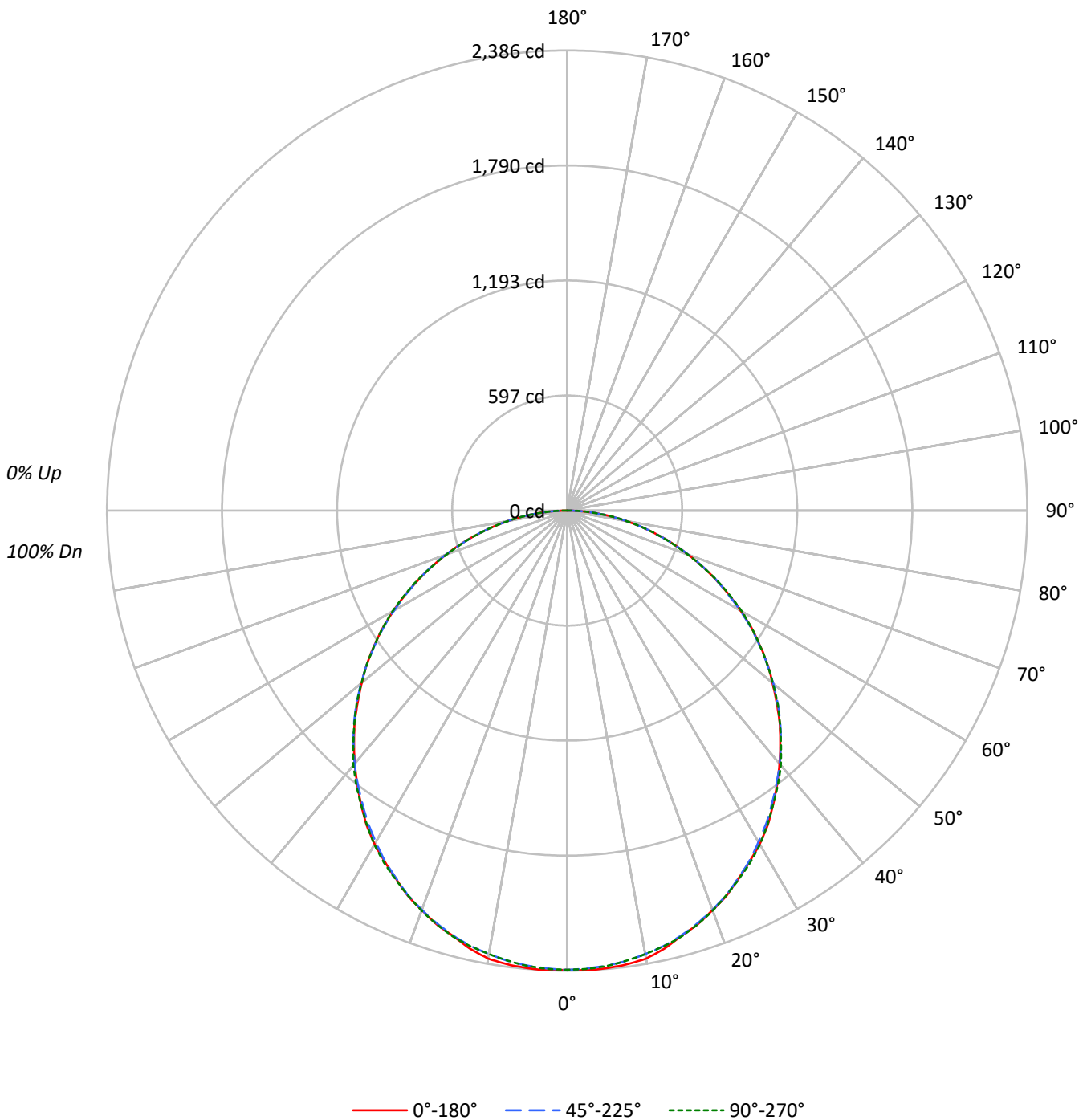
Input Watts (W): 64.263
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3204	3204	3204
5°	3217	3199	3201
10°	3223	3190	3190
15°	3181	3179	3185
20°	3157	3155	3162
25°	3123	3121	3130
30°	3103	3083	3106
35°	3059	3043	3059
40°	3009	3012	3029
45°	2966	2975	2969
50°	2910	2920	2913
55°	2865	2857	2865
60°	2798	2789	2815
65°	2712	2722	2732
70°	2624	2636	2617
75°	2531	2531	2531
80°	2390	2390	2416
85°	2208	2232	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	3.3
10°-20°	643.8	9.4
20°-30°	970.1	14.2
30°-40°	1162.0	17.1
40°-50°	1202.8	17.7
50°-60°	1090.6	16.0
60°-70°	845.5	12.4
70°-80°	514.2	7.5
80°-90°	160.0	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°	1839.1	27.0
0°-40°	3001.0	44.0
0°-60°	5294.4	77.7
0°-90°	6814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2382	2382	2382	2382	2382	
5°	2382	2367	2369	2366	2370	227
15°	2284	2285	2282	2274	2287	646
25°	2104	2104	2102	2108	2108	971
35°	1862	1850	1853	1861	1862	1165
45°	1559	1562	1564	1557	1560	1201
55°	1221	1215	1218	1223	1221	1092
65°	852	856	855	852	858	845
75°	487	485	487	485	487	514
85°	143	141	145	143	140	160
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2381.6	2381.6	2381.6	2381.6	2381.6
2.5°	2386.4	2376.8	2376.8	2373.5	2378.4
5°	2381.6	2367.1	2368.7	2365.5	2370.3
7.5°	2373.5	2354.3	2355.9	2352.6	2354.3
10°	2359.1	2336.6	2335.0	2333.4	2335.0
12.5°	2326.9	2314.1	2312.5	2309.3	2314.1
15°	2283.5	2285.2	2281.9	2273.9	2286.8
17.5°	2249.8	2248.2	2245.0	2236.9	2249.8
20°	2204.8	2206.4	2203.2	2200.0	2208.0
22.5°	2161.4	2156.6	2158.2	2156.6	2158.2
25°	2103.6	2103.6	2102.0	2108.4	2108.4
27.5°	2050.5	2044.1	2047.3	2053.7	2057.0
30°	1997.5	1981.4	1984.6	1991.1	1999.1
32.5°	1934.8	1918.8	1922.0	1928.4	1931.6
35°	1862.5	1849.7	1852.9	1860.9	1862.5
37.5°	1788.6	1780.6	1783.8	1790.2	1795.0
40°	1713.1	1709.8	1714.7	1713.1	1724.3
42.5°	1635.9	1634.3	1639.1	1639.1	1640.7
45°	1558.8	1562.0	1563.6	1557.2	1560.4
47.5°	1473.6	1475.2	1481.7	1478.4	1480.0
50°	1390.1	1388.4	1394.9	1396.5	1391.7
52.5°	1309.7	1301.7	1308.1	1311.3	1308.1
55°	1221.3	1214.9	1218.1	1222.9	1221.3
57.5°	1134.5	1128.1	1129.7	1137.8	1134.5
60°	1039.7	1038.1	1036.5	1042.9	1046.2
62.5°	946.5	944.9	941.7	948.1	951.3
65°	851.7	856.5	854.9	851.7	858.1
67.5°	761.7	766.5	761.7	758.5	758.5
70°	666.9	671.7	670.1	666.9	665.3
72.5°	578.5	578.5	575.3	573.7	575.3
75°	486.9	485.3	486.9	485.3	486.9
77.5°	396.9	398.5	398.5	398.5	396.9
80°	308.5	308.5	308.5	310.2	311.8
82.5°	226.6	221.8	226.6	223.4	225.0
85°	143.0	141.4	144.6	143.0	139.8
87.5°	64.3	65.9	65.9	67.5	67.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)