

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: P294288

Luminaire Tested: **24GR-LD5-85-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294288
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-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: 7059.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

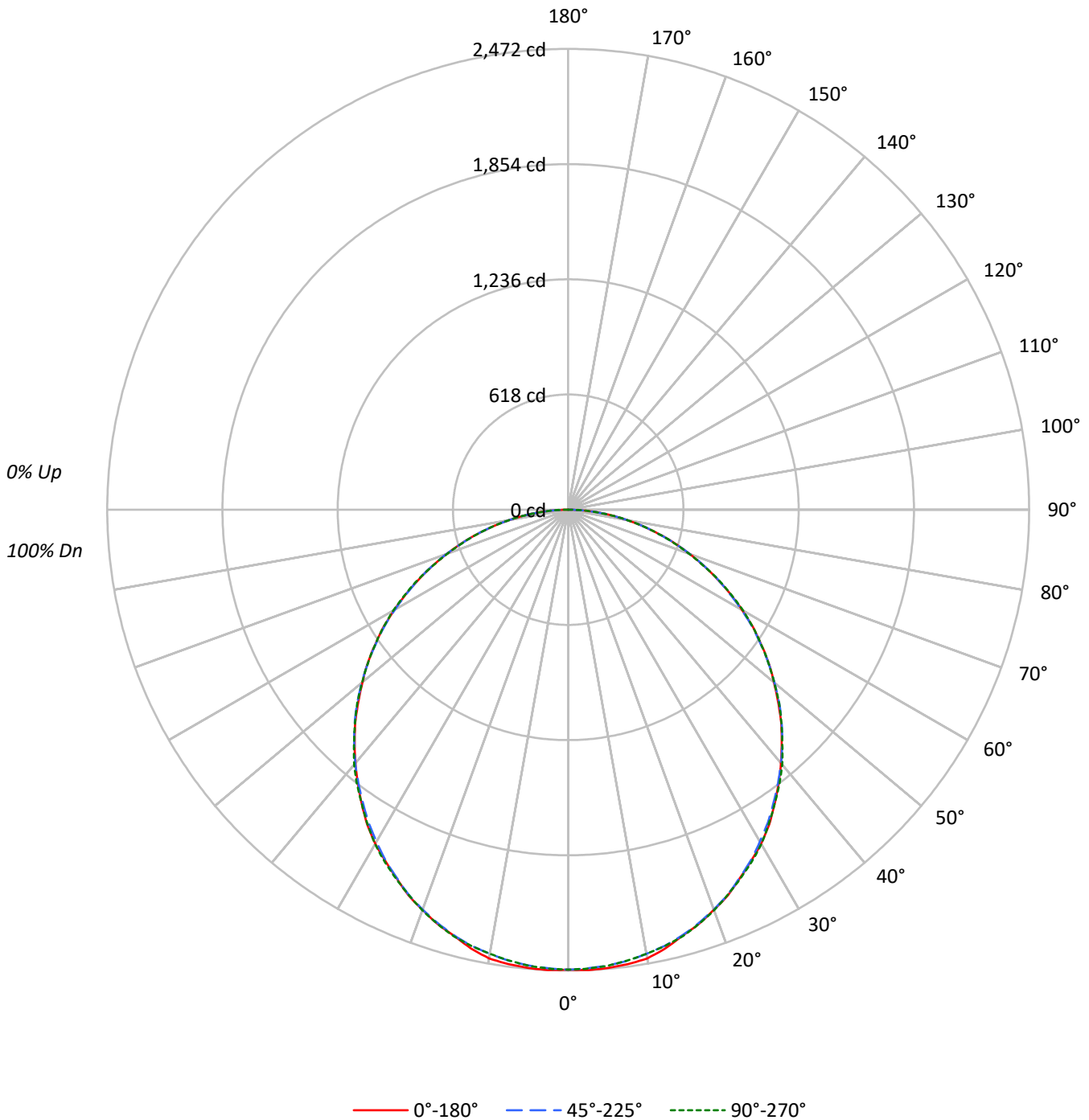
Input Watts (W): 62.682
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3320	3320	3320
5°	3332	3314	3316
10°	3339	3305	3305
15°	3295	3293	3300
20°	3270	3268	3275
25°	3235	3233	3243
30°	3215	3194	3218
35°	3169	3153	3169
40°	3117	3120	3137
45°	3073	3082	3076
50°	3014	3025	3018
55°	2968	2960	2968
60°	2898	2890	2916
65°	2809	2820	2830
70°	2718	2731	2711
75°	2622	2622	2622
80°	2476	2476	2503
85°	2288	2313	2235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	3.3
10°-20°	666.9	9.4
20°-30°	1005.0	14.2
30°-40°	1203.7	17.1
40°-50°	1246.0	17.7
50°-60°	1129.8	16.0
60°-70°	875.9	12.4
70°-80°	532.7	7.5
80°-90°	165.7	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°	1905.2	27.0
0°-40°	3108.9	44.0
0°-60°	5484.7	77.7
0°-90°	7059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7059.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2467	2467	2467	2467	2467	
5°	2467	2452	2454	2451	2456	235
15°	2366	2367	2364	2356	2369	669
25°	2179	2179	2178	2184	2184	1006
35°	1930	1916	1920	1928	1930	1207
45°	1615	1618	1620	1613	1616	1244
55°	1265	1259	1262	1267	1265	1131
65°	882	887	886	882	889	875
75°	504	503	504	503	504	533
85°	148	146	150	148	145	166
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2467.2	2467.2	2467.2	2467.2	2467.2
2.5°	2472.2	2462.2	2462.2	2458.9	2463.9
5°	2467.2	2452.2	2453.9	2450.6	2455.5
7.5°	2458.9	2438.9	2440.6	2437.2	2438.9
10°	2443.9	2420.6	2418.9	2417.3	2418.9
12.5°	2410.6	2397.3	2395.6	2392.3	2397.3
15°	2365.7	2367.3	2364.0	2355.7	2369.0
17.5°	2330.7	2329.0	2325.7	2317.4	2330.7
20°	2284.1	2285.7	2282.4	2279.1	2287.4
22.5°	2239.1	2234.1	2235.8	2234.1	2235.8
25°	2179.2	2179.2	2177.5	2184.2	2184.2
27.5°	2124.3	2117.6	2120.9	2127.6	2130.9
30°	2069.3	2052.7	2056.0	2062.7	2071.0
32.5°	2004.4	1987.7	1991.1	1997.7	2001.1
35°	1929.5	1916.2	1919.5	1927.8	1929.5
37.5°	1852.9	1844.6	1847.9	1854.6	1859.6
40°	1774.7	1771.3	1776.3	1774.7	1786.3
42.5°	1694.7	1693.1	1698.1	1698.1	1699.7
45°	1614.8	1618.2	1619.8	1613.2	1616.5
47.5°	1526.6	1528.3	1534.9	1531.6	1533.3
50°	1440.0	1438.4	1445.0	1446.7	1441.7
52.5°	1356.8	1348.5	1355.1	1358.5	1355.1
55°	1265.2	1258.6	1261.9	1266.9	1265.2
57.5°	1175.3	1168.7	1170.3	1178.7	1175.3
60°	1077.1	1075.4	1073.8	1080.4	1083.8
62.5°	980.6	978.9	975.6	982.2	985.5
65°	882.3	887.3	885.7	882.3	889.0
67.5°	789.1	794.1	789.1	785.8	785.8
70°	690.9	695.9	694.2	690.9	689.2
72.5°	599.3	599.3	596.0	594.3	596.0
75°	504.4	502.8	504.4	502.8	504.4
77.5°	411.2	412.9	412.9	412.9	411.2
80°	319.6	319.6	319.6	321.3	323.0
82.5°	234.7	229.7	234.7	231.4	233.1
85°	148.2	146.5	149.8	148.2	144.8
87.5°	66.6	68.3	68.3	69.9	69.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)