

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: P294408

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294408
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-LD5-72-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5828.1 lumens
Efficiency: N/A
Efficacy: 108.4 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

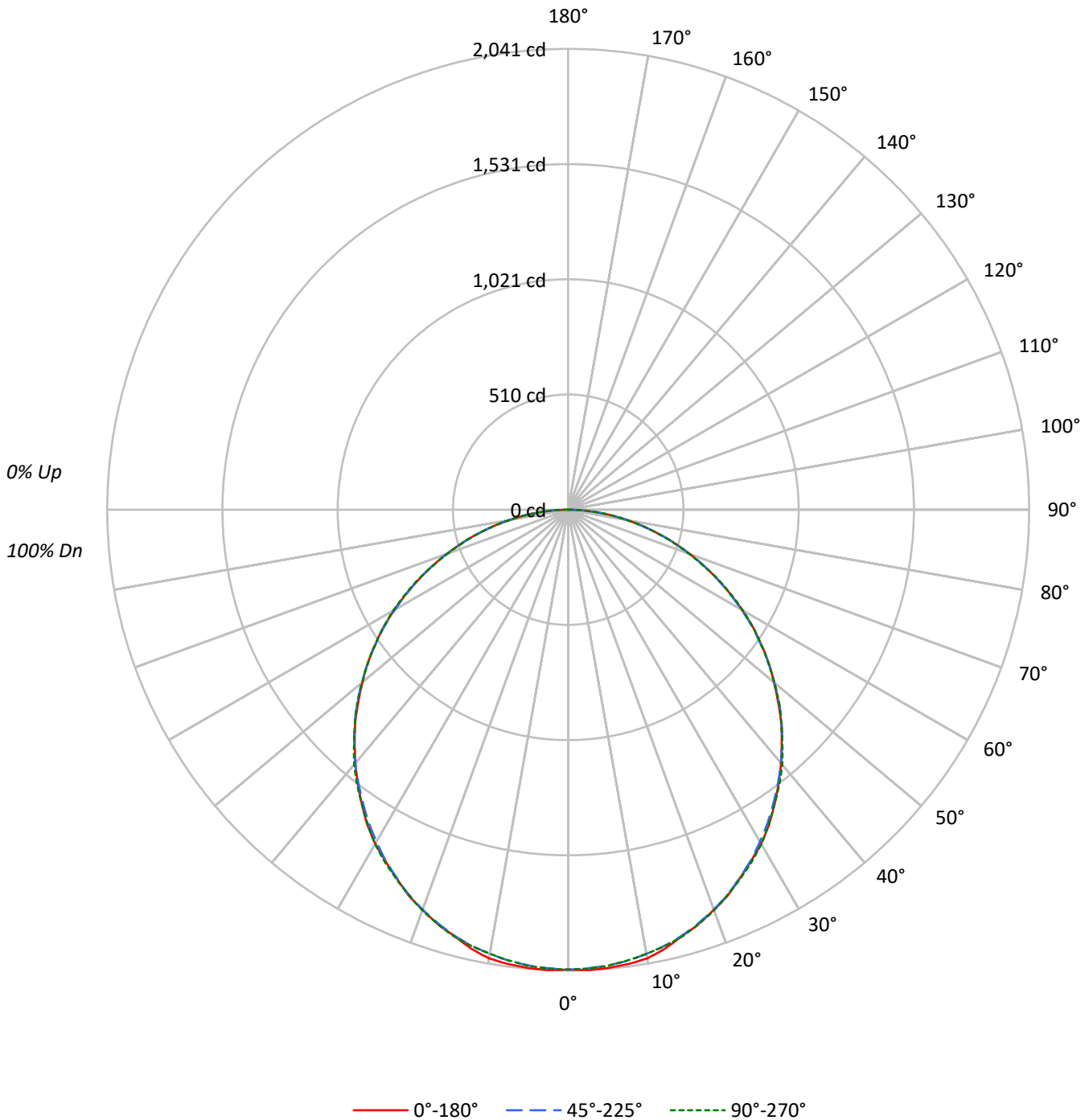
Input Watts (W): 53.754
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2741	2741	2741
5°	2751	2736	2738
10°	2757	2729	2729
15°	2721	2719	2724
20°	2700	2698	2704
25°	2671	2669	2677
30°	2654	2637	2656
35°	2617	2603	2617
40°	2573	2576	2590
45°	2537	2545	2539
50°	2489	2497	2492
55°	2450	2444	2450
60°	2393	2386	2408
65°	2319	2328	2337
70°	2244	2255	2238
75°	2165	2165	2165
80°	2045	2045	2066
85°	1888	1910	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.6	3.3
10°-20°	550.6	9.4
20°-30°	829.8	14.2
30°-40°	993.8	17.1
40°-50°	1028.7	17.7
50°-60°	932.8	16.0
60°-70°	723.2	12.4
70°-80°	439.8	7.5
80°-90°	136.8	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°	1573.0	27.0
0°-40°	2566.8	44.0
0°-60°	4528.3	77.7
0°-90°	5828.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5828.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2037	2037	2037	2037	2037	
5°	2037	2025	2026	2023	2027	194
15°	1953	1954	1952	1945	1956	552
25°	1799	1799	1798	1803	1803	831
35°	1593	1582	1585	1592	1593	997
45°	1333	1336	1337	1332	1335	1027
55°	1045	1039	1042	1046	1045	934
65°	728	733	731	728	734	722
75°	416	415	416	415	416	440
85°	122	121	124	122	120	137
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2037.0	2037.0	2037.0	2037.0	2037.0
2.5°	2041.1	2032.8	2032.8	2030.1	2034.2
5°	2037.0	2024.6	2026.0	2023.2	2027.3
7.5°	2030.1	2013.6	2015.0	2012.2	2013.6
10°	2017.7	1998.5	1997.1	1995.7	1997.1
12.5°	1990.2	1979.2	1977.9	1975.1	1979.2
15°	1953.1	1954.5	1951.7	1944.9	1955.9
17.5°	1924.2	1922.9	1920.1	1913.3	1924.2
20°	1885.8	1887.1	1884.4	1881.6	1888.5
22.5°	1848.7	1844.5	1845.9	1844.5	1845.9
25°	1799.2	1799.2	1797.8	1803.3	1803.3
27.5°	1753.8	1748.3	1751.1	1756.6	1759.3
30°	1708.5	1694.7	1697.5	1703.0	1709.8
32.5°	1654.9	1641.1	1643.9	1649.4	1652.1
35°	1593.0	1582.0	1584.8	1591.6	1593.0
37.5°	1529.8	1522.9	1525.7	1531.2	1535.3
40°	1465.2	1462.4	1466.6	1465.2	1474.8
42.5°	1399.2	1397.8	1402.0	1402.0	1403.3
45°	1333.2	1336.0	1337.4	1331.9	1334.6
47.5°	1260.4	1261.8	1267.3	1264.5	1265.9
50°	1188.9	1187.5	1193.0	1194.4	1190.3
52.5°	1120.2	1113.3	1118.8	1121.6	1118.8
55°	1044.6	1039.1	1041.8	1046.0	1044.6
57.5°	970.4	964.9	966.2	973.1	970.4
60°	889.3	887.9	886.5	892.0	894.8
62.5°	809.6	808.2	805.4	810.9	813.7
65°	728.5	732.6	731.2	728.5	734.0
67.5°	651.5	655.6	651.5	648.7	648.7
70°	570.4	574.5	573.2	570.4	569.0
72.5°	494.8	494.8	492.1	490.7	492.1
75°	416.5	415.1	416.5	415.1	416.5
77.5°	339.5	340.9	340.9	340.9	339.5
80°	263.9	263.9	263.9	265.3	266.6
82.5°	193.8	189.7	193.8	191.1	192.4
85°	122.3	121.0	123.7	122.3	119.6
87.5°	55.0	56.4	56.4	57.7	57.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)