

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: P294281

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294281
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-L82765-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: 6404.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

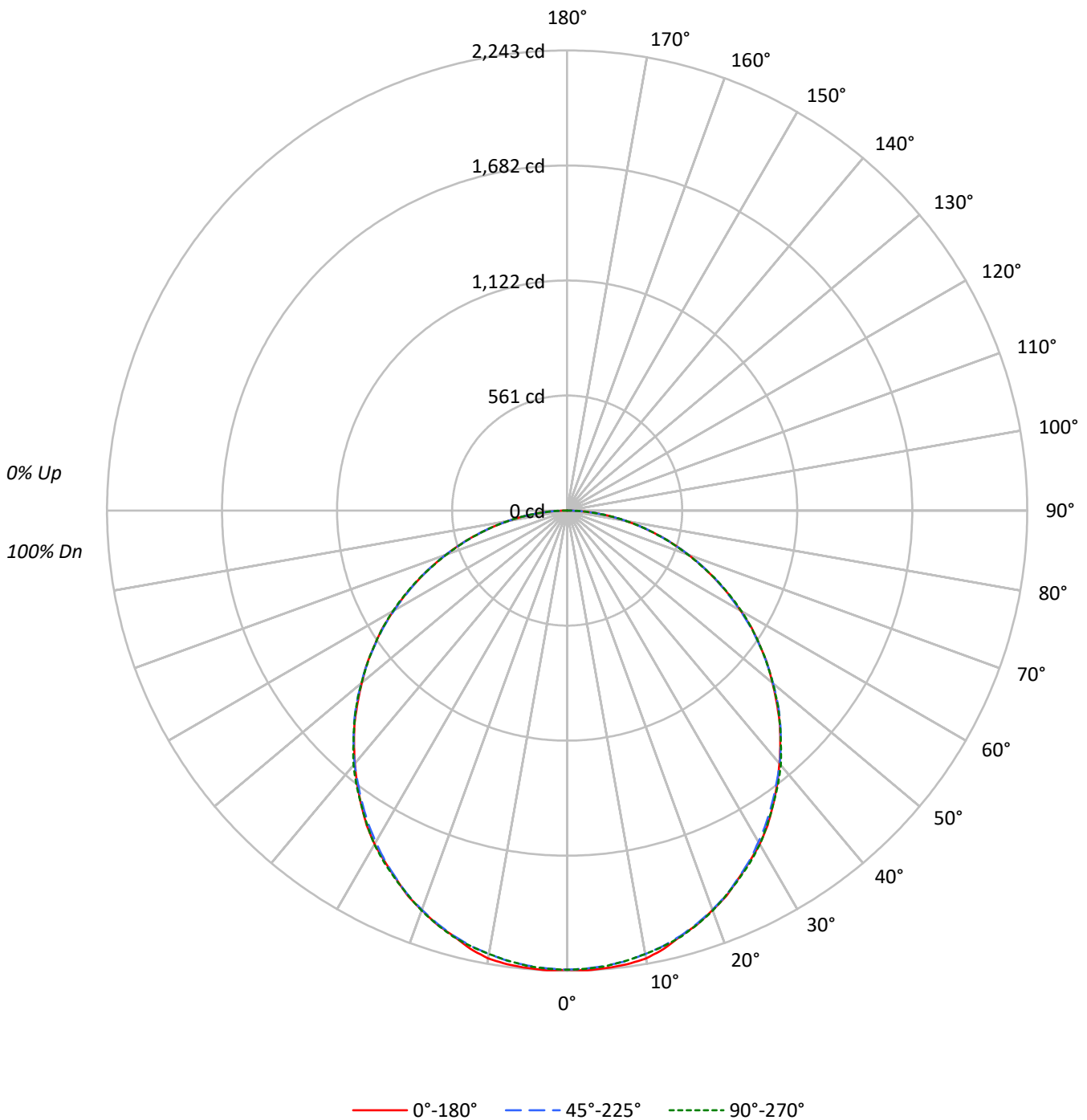
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3012	3012	3012
5°	3023	3007	3009
10°	3029	2998	2998
15°	2989	2987	2994
20°	2967	2965	2971
25°	2935	2933	2942
30°	2917	2898	2919
35°	2875	2860	2875
40°	2828	2830	2846
45°	2788	2796	2790
50°	2735	2744	2738
55°	2692	2685	2692
60°	2630	2621	2646
65°	2549	2558	2568
70°	2466	2478	2460
75°	2379	2379	2379
80°	2247	2247	2270
85°	2075	2098	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	3.3
10°-20°	605.0	9.4
20°-30°	911.8	14.2
30°-40°	1092.0	17.1
40°-50°	1130.4	17.7
50°-60°	1024.9	16.0
60°-70°	794.6	12.4
70°-80°	483.3	7.5
80°-90°	150.3	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°	1728.4	27.0
0°-40°	2820.4	44.0
0°-60°	4975.8	77.7
0°-90°	6404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2238	2225	2226	2223	2228	213
15°	2146	2148	2145	2137	2149	607
25°	1977	1977	1976	1982	1982	913
35°	1750	1738	1741	1749	1750	1095
45°	1465	1468	1470	1464	1466	1129
55°	1148	1142	1145	1149	1148	1026
65°	800	805	804	800	806	794
75°	458	456	458	456	458	483
85°	134	133	136	134	131	150
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2238.3	2238.3	2238.3	2238.3	2238.3
2.5°	2242.8	2233.7	2233.7	2230.7	2235.3
5°	2238.3	2224.7	2226.2	2223.2	2227.7
7.5°	2230.7	2212.6	2214.1	2211.1	2212.6
10°	2217.1	2196.0	2194.5	2193.0	2194.5
12.5°	2186.9	2174.8	2173.3	2170.3	2174.8
15°	2146.1	2147.7	2144.6	2137.1	2149.2
17.5°	2114.4	2112.9	2109.9	2102.3	2114.4
20°	2072.1	2073.6	2070.6	2067.6	2075.2
22.5°	2031.4	2026.8	2028.3	2026.8	2028.3
25°	1977.0	1977.0	1975.5	1981.5	1981.5
27.5°	1927.1	1921.1	1924.1	1930.2	1933.2
30°	1877.3	1862.2	1865.2	1871.3	1878.8
32.5°	1818.4	1803.3	1806.3	1812.4	1815.4
35°	1750.4	1738.4	1741.4	1748.9	1750.4
37.5°	1681.0	1673.4	1676.4	1682.5	1687.0
40°	1610.0	1607.0	1611.5	1610.0	1620.6
42.5°	1537.5	1536.0	1540.5	1540.5	1542.0
45°	1465.0	1468.0	1469.5	1463.5	1466.5
47.5°	1384.9	1386.5	1392.5	1389.5	1391.0
50°	1306.4	1304.9	1310.9	1312.5	1307.9
52.5°	1230.9	1223.3	1229.4	1232.4	1229.4
55°	1147.8	1141.8	1144.8	1149.3	1147.8
57.5°	1066.3	1060.2	1061.7	1069.3	1066.3
60°	977.2	975.7	974.1	980.2	983.2
62.5°	889.6	888.1	885.0	891.1	894.1
65°	800.5	805.0	803.5	800.5	806.5
67.5°	715.9	720.4	715.9	712.9	712.9
70°	626.8	631.3	629.8	626.8	625.3
72.5°	543.7	543.7	540.7	539.2	540.7
75°	457.6	456.1	457.6	456.1	457.6
77.5°	373.0	374.6	374.6	374.6	373.0
80°	290.0	290.0	290.0	291.5	293.0
82.5°	213.0	208.4	213.0	209.9	211.4
85°	134.4	132.9	135.9	134.4	131.4
87.5°	60.4	61.9	61.9	63.4	63.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)