

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: P294410

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294410
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-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: 5943.0 lumens
Efficiency: N/A
Efficacy: 109.8 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

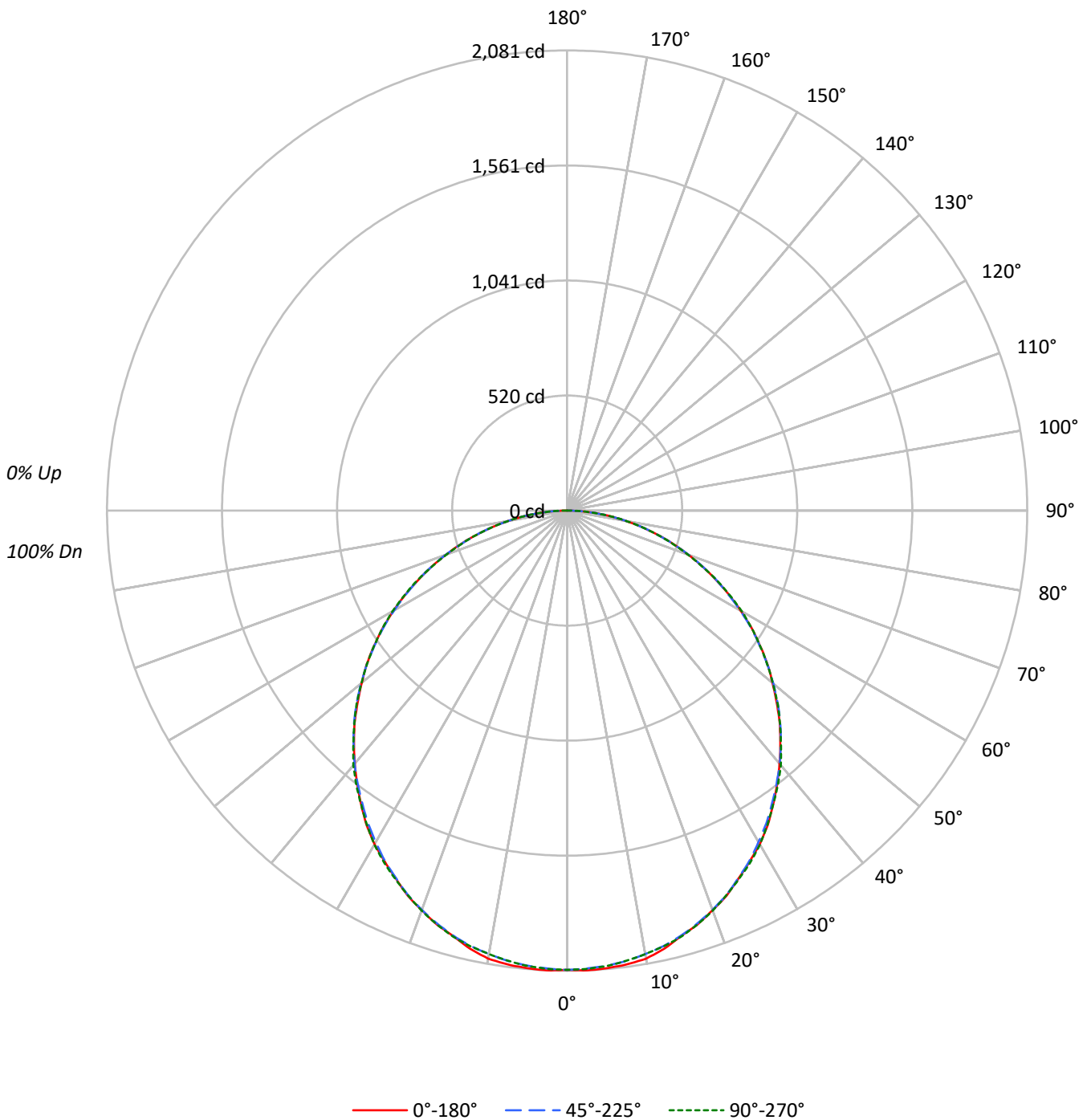
Input Watts (W): 54.126
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2795	2795	2795
5°	2805	2790	2792
10°	2811	2782	2782
15°	2774	2772	2778
20°	2753	2751	2757
25°	2724	2722	2730
30°	2707	2689	2709
35°	2668	2654	2668
40°	2624	2627	2641
45°	2587	2595	2590
50°	2538	2547	2541
55°	2499	2492	2499
60°	2440	2433	2455
65°	2365	2374	2383
70°	2288	2299	2283
75°	2208	2208	2208
80°	2085	2085	2107
85°	1925	1947	1882



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	3.3
10°-20°	561.5	9.4
20°-30°	846.1	14.2
30°-40°	1013.4	17.1
40°-50°	1049.0	17.7
50°-60°	951.2	16.0
60°-70°	737.4	12.4
70°-80°	448.5	7.5
80°-90°	139.5	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°	1604.0	27.0
0°-40°	2617.4	44.0
0°-60°	4617.6	77.7
0°-90°	5943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2077	2077	2077	2077	2077	
5°	2077	2064	2066	2063	2067	198
15°	1992	1993	1990	1983	1994	563
25°	1835	1835	1833	1839	1839	847
35°	1624	1613	1616	1623	1624	1016
45°	1360	1362	1364	1358	1361	1047
55°	1065	1060	1062	1067	1065	952
65°	743	747	746	743	748	737
75°	425	423	425	423	425	449
85°	125	123	126	125	122	140
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2077.1	2077.1	2077.1	2077.1	2077.1
2.5°	2081.4	2072.9	2072.9	2070.1	2074.3
5°	2077.1	2064.5	2065.9	2063.1	2067.3
7.5°	2070.1	2053.3	2054.7	2051.9	2053.3
10°	2057.5	2037.9	2036.5	2035.1	2036.5
12.5°	2029.5	2018.3	2016.9	2014.1	2018.3
15°	1991.7	1993.1	1990.2	1983.2	1994.5
17.5°	1962.2	1960.8	1958.0	1951.0	1962.2
20°	1923.0	1924.4	1921.6	1918.8	1925.8
22.5°	1885.1	1880.9	1882.3	1880.9	1882.3
25°	1834.7	1834.7	1833.3	1838.9	1838.9
27.5°	1788.4	1782.8	1785.6	1791.2	1794.0
30°	1742.2	1728.2	1731.0	1736.6	1743.6
32.5°	1687.5	1673.5	1676.3	1681.9	1684.7
35°	1624.4	1613.2	1616.0	1623.0	1624.4
37.5°	1560.0	1553.0	1555.8	1561.4	1565.6
40°	1494.1	1491.3	1495.5	1494.1	1503.9
42.5°	1426.8	1425.4	1429.6	1429.6	1431.0
45°	1359.5	1362.3	1363.7	1358.1	1360.9
47.5°	1285.3	1286.7	1292.3	1289.5	1290.9
50°	1212.4	1211.0	1216.6	1218.0	1213.8
52.5°	1142.3	1135.3	1140.9	1143.7	1140.9
55°	1065.2	1059.6	1062.4	1066.6	1065.2
57.5°	989.5	983.9	985.3	992.3	989.5
60°	906.8	905.4	904.0	909.6	912.4
62.5°	825.5	824.1	821.3	826.9	829.7
65°	742.8	747.0	745.6	742.8	748.4
67.5°	664.4	668.6	664.4	661.5	661.5
70°	581.7	585.9	584.5	581.7	580.3
72.5°	504.6	504.6	501.8	500.4	501.8
75°	424.7	423.3	424.7	423.3	424.7
77.5°	346.2	347.6	347.6	347.6	346.2
80°	269.1	269.1	269.1	270.5	271.9
82.5°	197.6	193.4	197.6	194.8	196.2
85°	124.7	123.3	126.1	124.7	121.9
87.5°	56.1	57.5	57.5	58.9	58.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)