

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: P294331

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294331
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-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5359.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

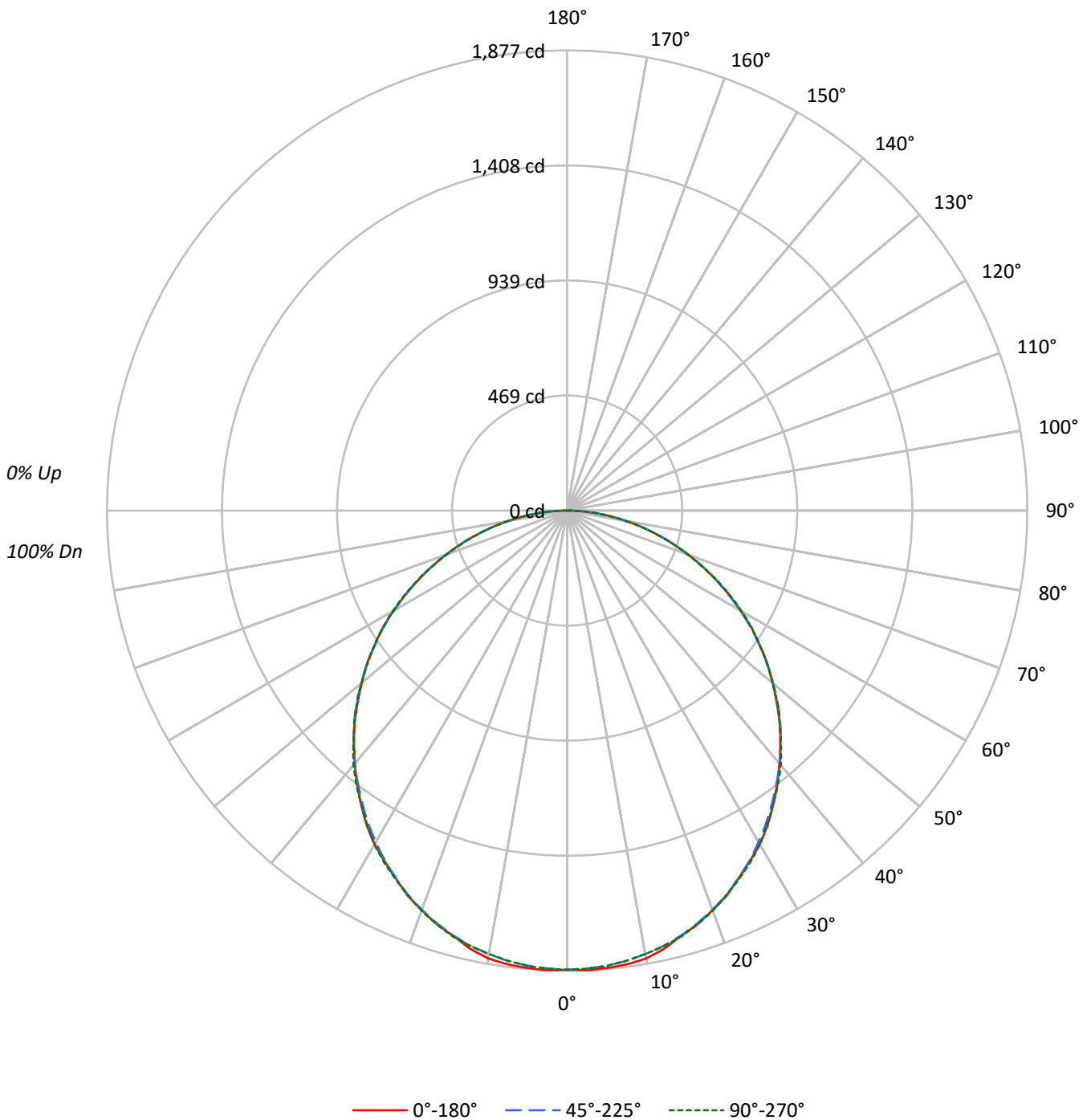
Input Watts (W): 53.543355
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2520	2520	2520
5°	2530	2516	2518
10°	2535	2509	2509
15°	2502	2500	2505
20°	2483	2481	2486
25°	2456	2454	2462
30°	2441	2425	2443
35°	2406	2394	2406
40°	2366	2369	2382
45°	2333	2340	2335
50°	2288	2296	2291
55°	2253	2247	2253
60°	2200	2194	2214
65°	2132	2141	2149
70°	2063	2073	2058
75°	1991	1991	1991
80°	1881	1881	1900
85°	1737	1755	1698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.1	3.3
10°-20°	506.3	9.4
20°-30°	763.0	14.2
30°-40°	913.8	17.1
40°-50°	945.9	17.7
50°-60°	857.7	16.0
60°-70°	665.0	12.4
70°-80°	404.4	7.5
80°-90°	125.8	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°	1446.4	27.0
0°-40°	2360.2	44.0
0°-60°	4163.8	77.7
0°-90°	5359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1873	1873	1873	1873	1873	
5°	1873	1862	1863	1860	1864	178
15°	1796	1797	1795	1788	1798	508
25°	1654	1654	1653	1658	1658	764
35°	1465	1455	1457	1464	1465	916
45°	1226	1228	1230	1225	1227	944
55°	960	956	958	962	960	859
65°	670	674	672	670	675	664
75°	383	382	383	382	383	405
85°	112	111	114	112	110	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1873.0	1873.0	1873.0	1873.0	1873.0
2.5°	1876.8	1869.2	1869.2	1866.7	1870.5
5°	1873.0	1861.7	1862.9	1860.4	1864.2
7.5°	1866.7	1851.5	1852.8	1850.3	1851.5
10°	1855.3	1837.6	1836.4	1835.1	1836.4
12.5°	1830.1	1820.0	1818.7	1816.2	1820.0
15°	1795.9	1797.2	1794.7	1788.4	1798.5
17.5°	1769.4	1768.1	1765.6	1759.3	1769.4
20°	1734.0	1735.3	1732.7	1730.2	1736.5
22.5°	1699.9	1696.1	1697.4	1696.1	1697.4
25°	1654.4	1654.4	1653.1	1658.2	1658.2
27.5°	1612.7	1607.6	1610.2	1615.2	1617.7
30°	1571.0	1558.3	1560.9	1565.9	1572.2
32.5°	1521.7	1509.0	1511.6	1516.6	1519.2
35°	1464.8	1454.7	1457.2	1463.5	1464.8
37.5°	1406.7	1400.4	1402.9	1407.9	1411.7
40°	1347.3	1344.7	1348.5	1347.3	1356.1
42.5°	1286.6	1285.3	1289.1	1289.1	1290.4
45°	1225.9	1228.5	1229.7	1224.7	1227.2
47.5°	1159.0	1160.2	1165.3	1162.7	1164.0
50°	1093.2	1092.0	1097.0	1098.3	1094.5
52.5°	1030.0	1023.7	1028.8	1031.3	1028.8
55°	960.5	955.5	958.0	961.8	960.5
57.5°	892.3	887.2	888.5	894.8	892.3
60°	817.7	816.4	815.2	820.2	822.8
62.5°	744.4	743.1	740.6	745.7	748.2
65°	669.8	673.6	672.4	669.8	674.9
67.5°	599.1	602.9	599.1	596.5	596.5
70°	524.5	528.3	527.0	524.5	523.2
72.5°	455.0	455.0	452.5	451.2	452.5
75°	382.9	381.7	382.9	381.7	382.9
77.5°	312.2	313.4	313.4	313.4	312.2
80°	242.7	242.7	242.7	243.9	245.2
82.5°	178.2	174.4	178.2	175.7	176.9
85°	112.5	111.2	113.7	112.5	110.0
87.5°	50.6	51.8	51.8	53.1	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)