

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: P294332

Luminaire Tested: **24GR-LD5-72-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294332
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787.0 lumens
Efficiency: N/A
Efficacy: 107.3 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

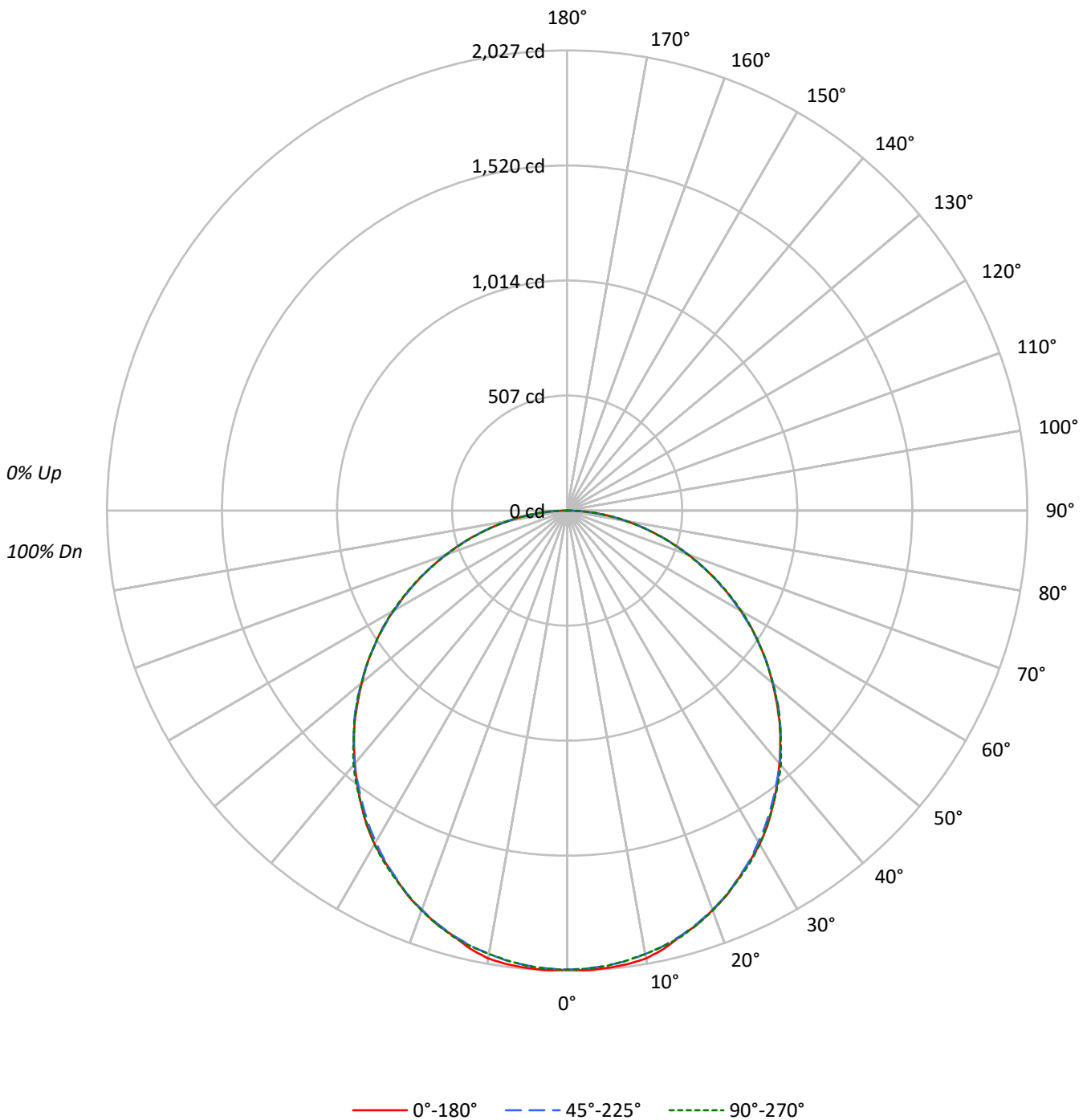
Input Watts (W): 53.91117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294332

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P294332

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L93050-W2A1-U-4000K

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°	2721	2721	2721
5°	2732	2717	2719
10°	2737	2709	2709
15°	2701	2700	2705
20°	2681	2679	2685
25°	2652	2650	2658
30°	2636	2619	2638
35°	2598	2585	2598
40°	2555	2558	2572
45°	2519	2527	2522
50°	2471	2480	2474
55°	2433	2427	2433
60°	2376	2369	2391
65°	2303	2312	2320
70°	2228	2239	2223
75°	2150	2150	2150
80°	2030	2030	2052
85°	1876	1896	1832



TEST NUMBER: P294332

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	3.3
10°-20°	546.7	9.4
20°-30°	823.9	14.2
30°-40°	986.8	17.1
40°-50°	1021.5	17.7
50°-60°	926.2	16.0
60°-70°	718.1	12.4
70°-80°	436.7	7.5
80°-90°	135.9	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°	1561.9	27.0
0°-40°	2548.7	44.0
0°-60°	4496.4	77.7
0°-90°	5787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2023	2023	2023	2023	2023	
5°	2023	2010	2012	2009	2013	192
15°	1939	1941	1938	1931	1942	548
25°	1786	1786	1785	1791	1791	825
35°	1582	1571	1574	1580	1582	990
45°	1324	1327	1328	1322	1325	1020
55°	1037	1032	1034	1039	1037	927
65°	723	727	726	723	729	717
75°	414	412	414	412	414	437
85°	122	120	123	122	119	136
90°	0	0	0	0	0	



TEST NUMBER: P294332

CATALOG NUMBER: 24GR-LD5-72-FGW080-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2022.6	2022.6	2022.6	2022.6	2022.6
2.5°	2026.7	2018.5	2018.5	2015.8	2019.9
5°	2022.6	2010.3	2011.7	2009.0	2013.1
7.5°	2015.8	1999.4	2000.8	1998.1	1999.4
10°	2003.5	1984.4	1983.0	1981.7	1983.0
12.5°	1976.2	1965.3	1963.9	1961.2	1965.3
15°	1939.4	1940.7	1938.0	1931.2	1942.1
17.5°	1910.7	1909.3	1906.6	1899.8	1910.7
20°	1872.5	1873.9	1871.1	1868.4	1875.2
22.5°	1835.6	1831.6	1832.9	1831.6	1832.9
25°	1786.5	1786.5	1785.1	1790.6	1790.6
27.5°	1741.5	1736.0	1738.7	1744.2	1746.9
30°	1696.4	1682.8	1685.5	1691.0	1697.8
32.5°	1643.2	1629.6	1632.3	1637.8	1640.5
35°	1581.8	1570.9	1573.6	1580.4	1581.8
37.5°	1519.0	1512.2	1514.9	1520.4	1524.5
40°	1454.9	1452.1	1456.2	1454.9	1464.4
42.5°	1389.4	1388.0	1392.1	1392.1	1393.5
45°	1323.8	1326.6	1327.9	1322.5	1325.2
47.5°	1251.5	1252.9	1258.3	1255.6	1257.0
50°	1180.5	1179.2	1184.6	1186.0	1181.9
52.5°	1112.3	1105.5	1110.9	1113.7	1110.9
55°	1037.2	1031.8	1034.5	1038.6	1037.2
57.5°	963.5	958.1	959.4	966.3	963.5
60°	883.0	881.7	880.3	885.8	888.5
62.5°	803.9	802.5	799.8	805.2	808.0
65°	723.3	727.4	726.1	723.3	728.8
67.5°	646.9	651.0	646.9	644.2	644.2
70°	566.4	570.5	569.1	566.4	565.0
72.5°	491.3	491.3	488.6	487.2	488.6
75°	413.5	412.2	413.5	412.2	413.5
77.5°	337.1	338.5	338.5	338.5	337.1
80°	262.0	262.0	262.0	263.4	264.8
82.5°	192.4	188.3	192.4	189.7	191.1
85°	121.5	120.1	122.8	121.5	118.7
87.5°	54.6	56.0	56.0	57.3	57.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)