

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: P294402

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294402
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-LD5-64-FGW080-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5295.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

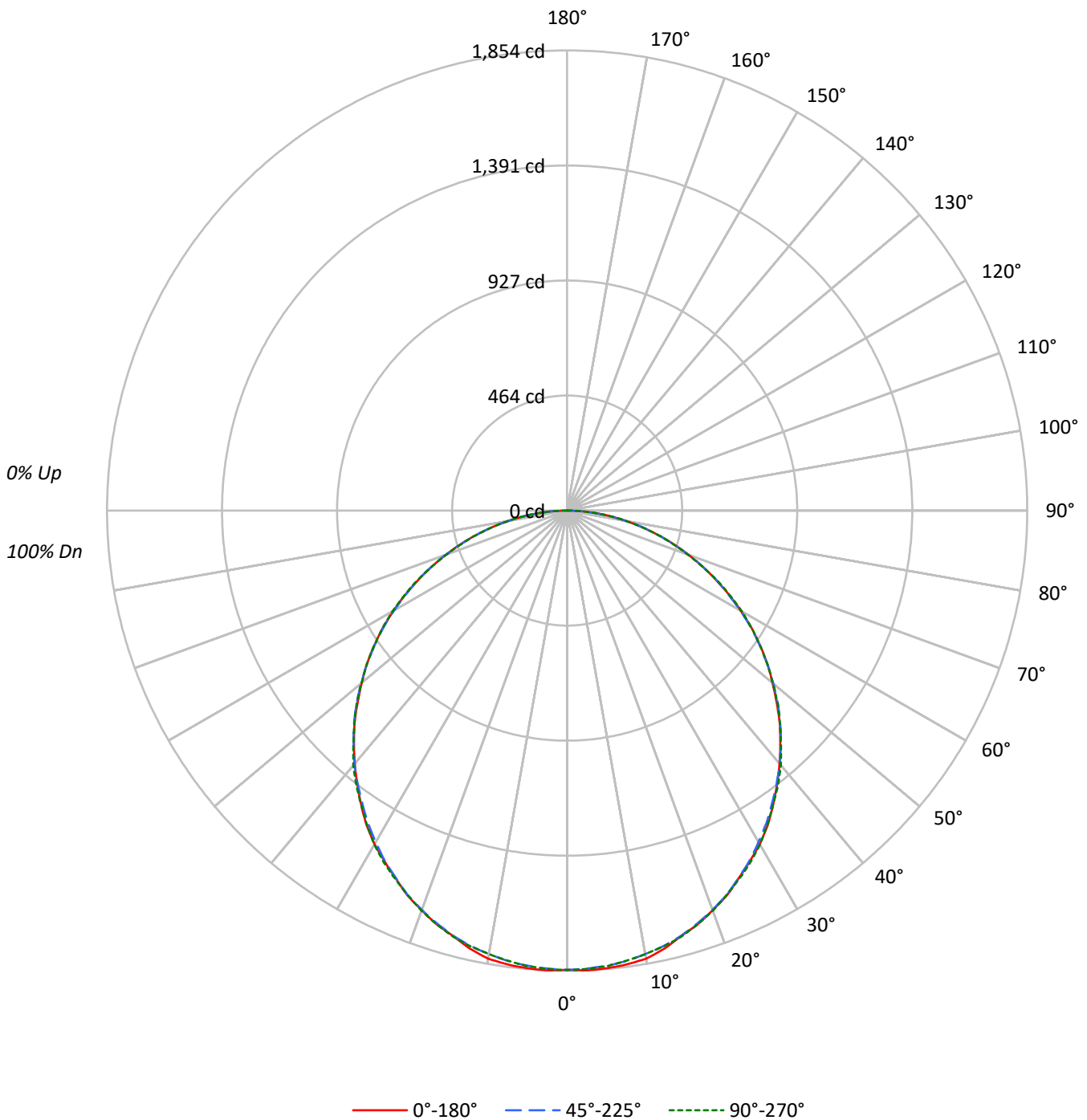
Input Watts (W): 48.081
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294402

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P294402

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-6500K

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°	2490	2490	2490
5°	2500	2486	2488
10°	2505	2479	2479
15°	2472	2470	2475
20°	2453	2451	2457
25°	2427	2425	2432
30°	2412	2396	2414
35°	2377	2365	2377
40°	2338	2340	2353
45°	2305	2312	2307
50°	2261	2269	2264
55°	2226	2221	2226
60°	2174	2168	2187
65°	2107	2115	2123
70°	2039	2048	2034
75°	1967	1967	1967
80°	1858	1858	1877
85°	1715	1735	1677



TEST NUMBER: P294402

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.0	3.3
10°-20°	500.2	9.4
20°-30°	753.9	14.2
30°-40°	902.9	17.1
40°-50°	934.6	17.7
50°-60°	847.5	16.0
60°-70°	657.0	12.4
70°-80°	399.6	7.5
80°-90°	124.3	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°	1429.1	27.0
0°-40°	2332.0	44.0
0°-60°	4114.1	77.7
0°-90°	5295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1851	1839	1841	1838	1842	176
15°	1774	1776	1773	1767	1777	502
25°	1635	1635	1633	1638	1638	755
35°	1447	1437	1440	1446	1447	905
45°	1211	1214	1215	1210	1212	933
55°	949	944	947	950	949	848
65°	662	666	664	662	667	656
75°	378	377	378	377	378	400
85°	111	110	112	111	109	124
90°	0	0	0	0	0	



TEST NUMBER: P294402

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1850.7	1850.7	1850.7	1850.7	1850.7
2.5°	1854.4	1846.9	1846.9	1844.4	1848.2
5°	1850.7	1839.4	1840.7	1838.2	1841.9
7.5°	1844.4	1829.4	1830.7	1828.2	1829.4
10°	1833.2	1815.7	1814.4	1813.2	1814.4
12.5°	1808.2	1798.2	1797.0	1794.5	1798.2
15°	1774.5	1775.7	1773.2	1767.0	1777.0
17.5°	1748.3	1747.0	1744.5	1738.3	1748.3
20°	1713.3	1714.5	1712.1	1709.6	1715.8
22.5°	1679.6	1675.8	1677.1	1675.8	1677.1
25°	1634.6	1634.6	1633.4	1638.4	1638.4
27.5°	1593.4	1588.4	1590.9	1595.9	1598.4
30°	1552.2	1539.7	1542.2	1547.2	1553.5
32.5°	1503.5	1491.0	1493.5	1498.5	1501.0
35°	1447.3	1437.3	1439.8	1446.1	1447.3
37.5°	1389.9	1383.6	1386.1	1391.1	1394.9
40°	1331.2	1328.7	1332.4	1331.2	1339.9
42.5°	1271.2	1270.0	1273.7	1273.7	1275.0
45°	1211.3	1213.8	1215.0	1210.0	1212.5
47.5°	1145.1	1146.4	1151.4	1148.9	1150.1
50°	1080.2	1078.9	1083.9	1085.2	1081.4
52.5°	1017.7	1011.5	1016.5	1019.0	1016.5
55°	949.1	944.1	946.6	950.3	949.1
57.5°	881.6	876.6	877.9	884.1	881.6
60°	807.9	806.7	805.5	810.4	812.9
62.5°	735.5	734.3	731.8	736.8	739.3
65°	661.8	665.6	664.3	661.8	666.8
67.5°	591.9	595.7	591.9	589.4	589.4
70°	518.2	522.0	520.7	518.2	517.0
72.5°	449.6	449.6	447.1	445.8	447.1
75°	378.4	377.1	378.4	377.1	378.4
77.5°	308.4	309.7	309.7	309.7	308.4
80°	239.8	239.8	239.8	241.0	242.3
82.5°	176.1	172.3	176.1	173.6	174.8
85°	111.1	109.9	112.4	111.1	108.6
87.5°	50.0	51.2	51.2	52.4	52.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)