

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: P294276

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294276
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-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5832.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

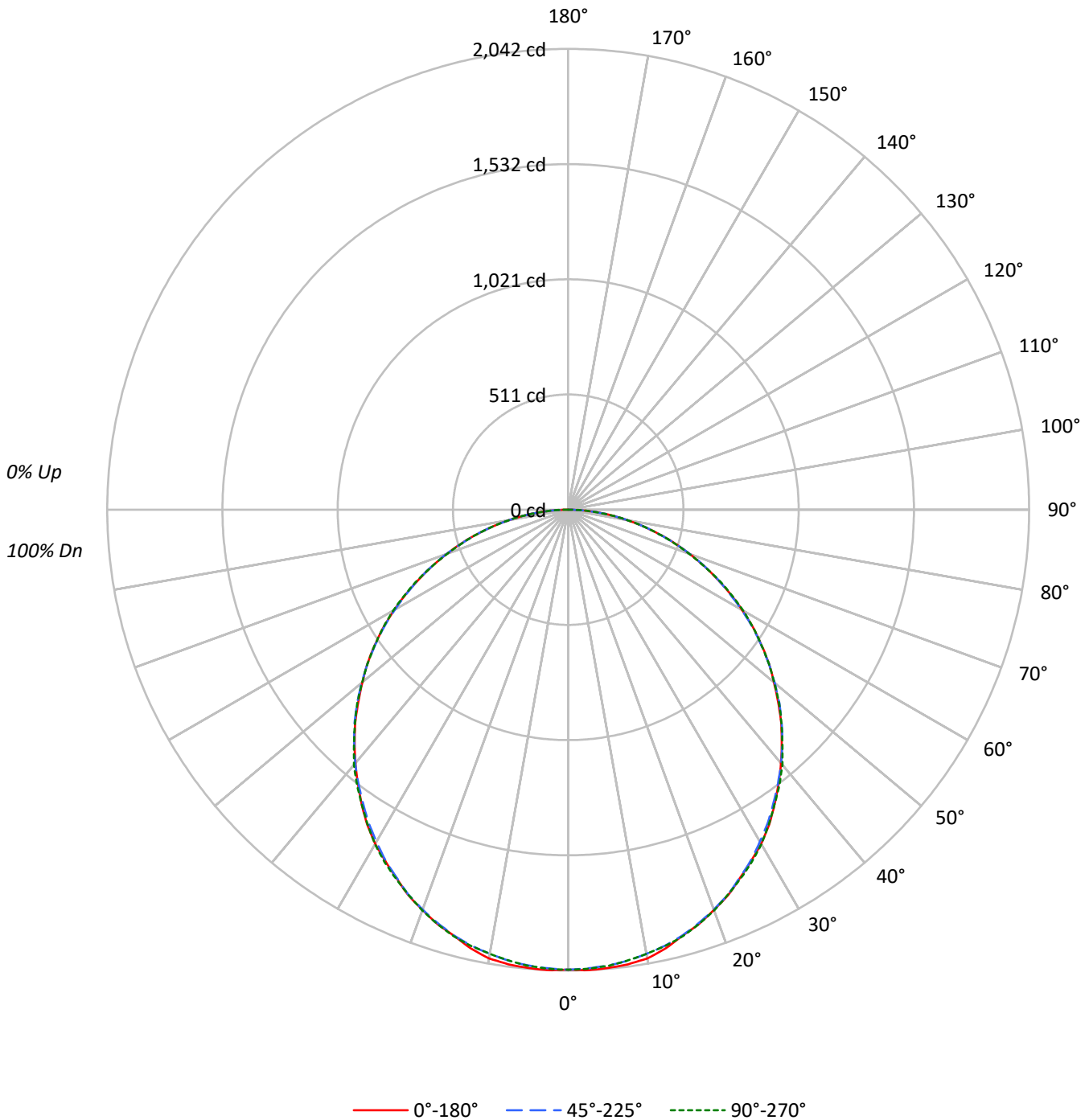
Input Watts (W): 47.988
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294276

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P294276

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L82765-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°	2743	2743	2743
5°	2753	2738	2740
10°	2759	2730	2730
15°	2723	2721	2726
20°	2702	2700	2706
25°	2673	2671	2679
30°	2656	2639	2658
35°	2618	2605	2618
40°	2575	2578	2592
45°	2539	2547	2541
50°	2490	2499	2493
55°	2452	2446	2452
60°	2395	2387	2410
65°	2321	2330	2338
70°	2245	2256	2240
75°	2166	2166	2166
80°	2046	2046	2067
85°	1890	1911	1848



TEST NUMBER: P294276

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	3.3
10°-20°	551.0	9.4
20°-30°	830.3	14.2
30°-40°	994.5	17.1
40°-50°	1029.4	17.7
50°-60°	933.4	16.0
60°-70°	723.6	12.4
70°-80°	440.1	7.5
80°-90°	136.9	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°	1574.0	27.0
0°-40°	2568.5	44.0
0°-60°	4531.3	77.7
0°-90°	5832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2038	2038	2038	2038	2038	
5°	2038	2026	2027	2025	2029	194
15°	1954	1956	1953	1946	1957	553
25°	1800	1800	1799	1804	1804	831
35°	1594	1583	1586	1593	1594	997
45°	1334	1337	1338	1333	1336	1028
55°	1045	1040	1043	1047	1045	934
65°	729	733	732	729	734	723
75°	417	415	417	415	417	440
85°	122	121	124	122	120	137
90°	0	0	0	0	0	



TEST NUMBER: P294276

CATALOG NUMBER: 24GR-LD5-64-FGW080-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2038.4	2038.4	2038.4	2038.4	2038.4
2.5°	2042.5	2034.2	2034.2	2031.5	2035.6
5°	2038.4	2026.0	2027.3	2024.6	2028.7
7.5°	2031.5	2015.0	2016.3	2013.6	2015.0
10°	2019.1	1999.8	1998.5	1997.1	1998.5
12.5°	1991.6	1980.6	1979.2	1976.5	1980.6
15°	1954.5	1955.8	1953.1	1946.2	1957.2
17.5°	1925.6	1924.2	1921.4	1914.6	1925.6
20°	1887.1	1888.4	1885.7	1882.9	1889.8
22.5°	1849.9	1845.8	1847.2	1845.8	1847.2
25°	1800.4	1800.4	1799.0	1804.5	1804.5
27.5°	1755.0	1749.5	1752.3	1757.8	1760.5
30°	1709.6	1695.9	1698.6	1704.1	1711.0
32.5°	1656.0	1642.2	1645.0	1650.5	1653.2
35°	1594.1	1583.1	1585.8	1592.7	1594.1
37.5°	1530.8	1523.9	1526.7	1532.2	1536.3
40°	1466.2	1463.4	1467.6	1466.2	1475.8
42.5°	1400.2	1398.8	1402.9	1402.9	1404.3
45°	1334.1	1336.9	1338.3	1332.8	1335.5
47.5°	1261.2	1262.6	1268.1	1265.4	1266.7
50°	1189.7	1188.4	1193.9	1195.2	1191.1
52.5°	1121.0	1114.1	1119.6	1122.3	1119.6
55°	1045.3	1039.8	1042.6	1046.7	1045.3
57.5°	971.0	965.5	966.9	973.8	971.0
60°	889.9	888.5	887.1	892.6	895.4
62.5°	810.1	808.7	806.0	811.5	814.2
65°	729.0	733.1	731.7	729.0	734.5
67.5°	651.9	656.1	651.9	649.2	649.2
70°	570.8	574.9	573.5	570.8	569.4
72.5°	495.1	495.1	492.4	491.0	492.4
75°	416.7	415.4	416.7	415.4	416.7
77.5°	339.7	341.1	341.1	341.1	339.7
80°	264.1	264.1	264.1	265.5	266.8
82.5°	193.9	189.8	193.9	191.2	192.6
85°	122.4	121.0	123.8	122.4	119.7
87.5°	55.0	56.4	56.4	57.8	57.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)