

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: P293390

Luminaire Tested: **24GR-LD5-64-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293390  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-F125-UNV-L92765-W2A1-U-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5798.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

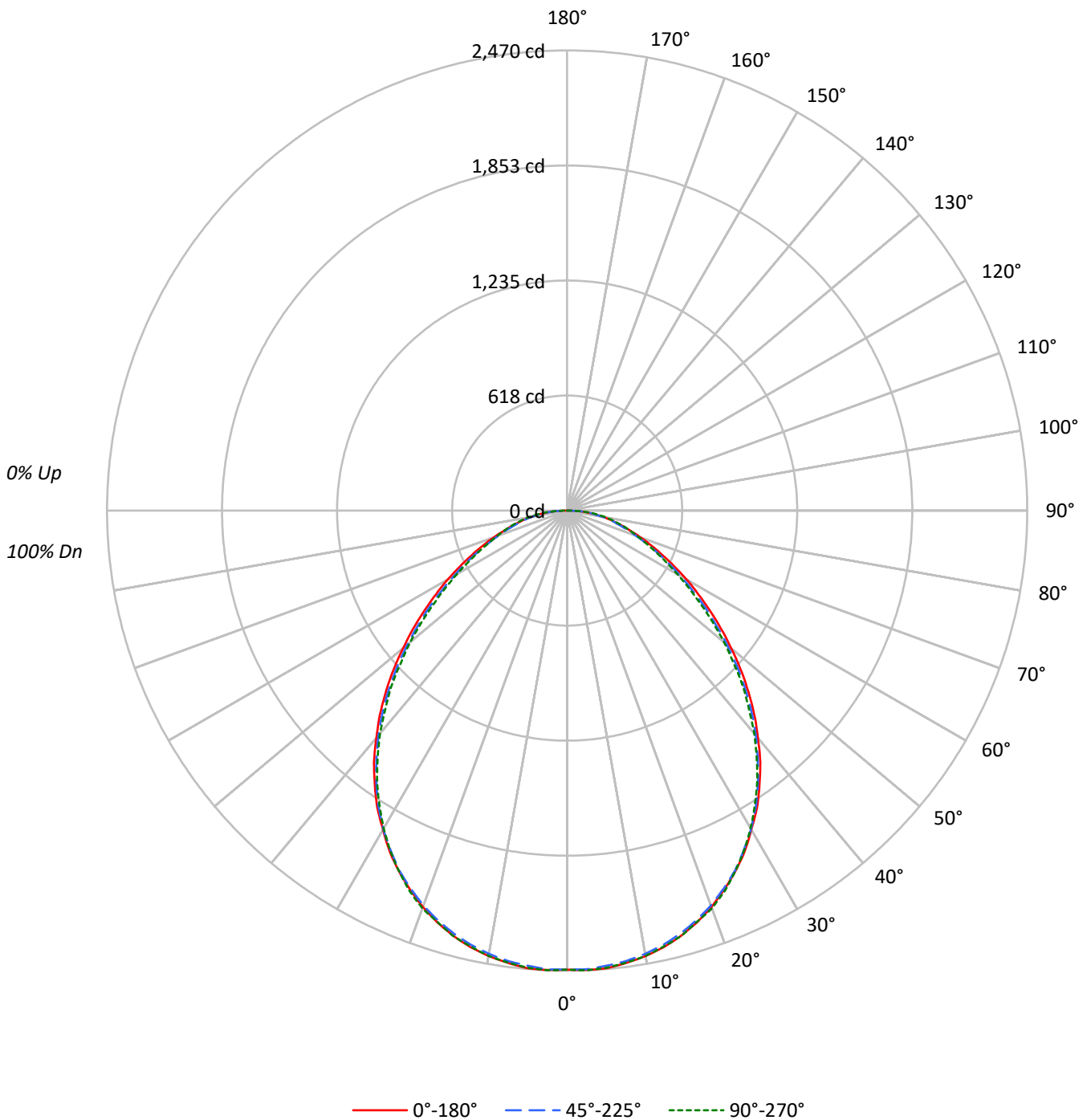
Input Watts (W): 46.779  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293390

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L92765-W2A1-U-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293390

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L92765-W2A1-U-4500K

**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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3315	3315	3315
5°	3331	3312	3326
10°	3317	3301	3316
15°	3291	3273	3294
20°	3243	3230	3253
25°	3173	3164	3171
30°	3072	3067	3060
35°	2956	2934	2922
40°	2798	2767	2744
45°	2618	2569	2538
50°	2406	2341	2301
55°	2194	2113	2052
60°	1992	1885	1836
65°	1795	1694	1665
70°	1644	1537	1579
75°	1536	1465	1574
80°	1524	1495	1643
85°	1553	1567	1791



TEST NUMBER: P293390

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L92765-W2A1-U-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.2	4.0
10°-20°	663.0	11.4
20°-30°	979.5	16.9
30°-40°	1113.6	19.2
40°-50°	1039.9	17.9
50°-60°	808.7	13.9
60°-70°	536.6	9.3
70°-80°	310.5	5.4
80°-90°	112.9	1.9
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°	1875.7	32.4
0°-40°	2989.3	51.6
0°-60°	4837.9	83.4
0°-90°	5798.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5798.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2464	2464	2464	2464	2464	
5°	2466	2453	2452	2457	2462	234
15°	2363	2351	2350	2349	2364	666
25°	2137	2128	2132	2127	2136	983
35°	1800	1791	1786	1774	1779	1124
45°	1376	1365	1350	1333	1334	1060
55°	935	922	901	877	875	839
65°	564	546	532	522	523	563
75°	295	288	282	294	303	316
85°	101	99	102	115	116	109
90°	0	0	0	0	0	



TEST NUMBER: P293390

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L92765-W2A1-U-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2464.1	2464.1	2464.1	2464.1	2464.1
2.5°	2467.8	2460.5	2464.1	2461.4	2469.6
5°	2466.0	2453.3	2452.4	2456.9	2462.3
7.5°	2448.7	2435.1	2437.9	2437.9	2446.9
10°	2427.9	2414.3	2416.1	2417.0	2427.0
12.5°	2399.8	2386.2	2387.1	2386.2	2396.2
15°	2362.6	2350.9	2350.0	2349.1	2364.5
17.5°	2317.3	2301.0	2306.5	2307.4	2315.5
20°	2264.8	2252.1	2255.7	2254.8	2272.0
22.5°	2202.2	2193.2	2195.9	2194.1	2210.4
25°	2137.0	2127.9	2131.5	2127.0	2136.1
27.5°	2063.6	2057.2	2053.6	2050.9	2057.2
30°	1977.5	1973.9	1973.9	1962.1	1969.3
32.5°	1895.9	1884.1	1884.1	1879.6	1875.1
35°	1799.9	1790.8	1786.3	1773.6	1779.0
37.5°	1703.8	1682.9	1681.1	1671.2	1671.2
40°	1593.2	1581.4	1575.1	1564.2	1562.4
42.5°	1488.1	1476.3	1465.4	1447.3	1443.7
45°	1375.7	1364.8	1350.3	1333.1	1334.0
47.5°	1264.2	1248.8	1235.2	1214.4	1211.7
50°	1149.2	1138.3	1118.3	1100.2	1099.3
52.5°	1041.3	1024.1	1006.0	984.2	984.2
55°	935.3	921.7	900.8	877.3	874.6
57.5°	833.8	821.1	797.5	780.3	775.8
60°	740.4	722.3	700.5	686.0	682.4
62.5°	647.1	630.8	614.5	600.0	599.0
65°	563.7	546.5	532.0	522.0	522.9
67.5°	488.5	474.0	457.7	454.9	455.9
70°	417.8	402.4	390.6	396.9	401.5
72.5°	350.7	342.6	334.4	343.5	349.8
75°	295.4	288.2	281.9	294.5	302.7
77.5°	244.7	239.3	238.3	249.2	256.5
80°	196.7	190.3	193.0	205.7	212.1
82.5°	149.5	145.0	145.9	161.3	165.8
85°	100.6	98.8	101.5	115.1	116.0
87.5°	53.5	53.5	55.3	63.4	60.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)