

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: P293134

Luminaire Tested: **24GR-LD5-64-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-F1-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F1 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5014.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

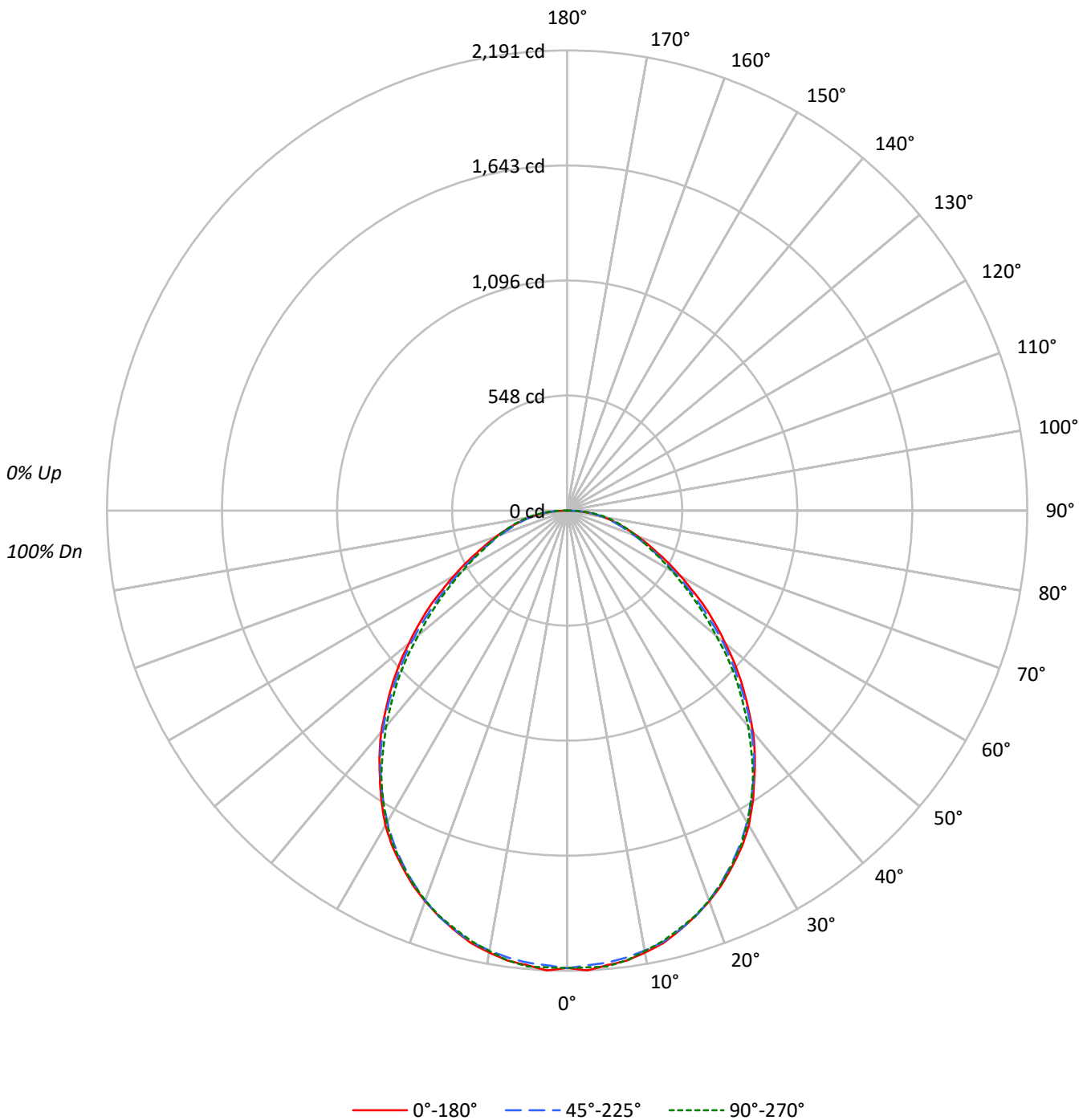
Input Watts (W): 45.849  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

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

	0°	45°	90°
0°	2930	2930	2930
5°	2935	2918	2943
10°	2919	2906	2909
15°	2883	2880	2872
20°	2834	2828	2828
25°	2768	2753	2759
30°	2688	2661	2669
35°	2553	2541	2534
40°	2418	2396	2354
45°	2247	2208	2165
50°	2059	2013	1937
55°	1880	1795	1734
60°	1675	1595	1553
65°	1508	1429	1409
70°	1400	1314	1367
75°	1339	1279	1387
80°	1338	1338	1482
85°	1389	1405	1564



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	4.1
10°-20°	582.1	11.6
20°-30°	854.3	17.0
30°-40°	965.8	19.3
40°-50°	892.6	17.8
50°-60°	687.7	13.7
60°-70°	455.4	9.1
70°-80°	271.1	5.4
80°-90°	99.3	2.0
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°	1642.0	32.7
0°-40°	2607.9	52.0
0°-60°	4188.2	83.5
0°-90°	5014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2178	2178	2178	2178	2178	
5°	2173	2173	2160	2161	2179	206
15°	2069	2065	2067	2066	2062	583
25°	1865	1859	1854	1852	1858	859
35°	1554	1552	1547	1540	1543	973
45°	1181	1173	1160	1140	1138	910
55°	802	785	765	745	739	715
65°	474	466	449	445	443	475
75°	258	251	246	258	267	275
85°	90	85	91	100	101	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2191.4	2180.0	2167.6	2167.6	2176.9
5°	2172.8	2172.8	2160.4	2161.4	2179.0
7.5°	2161.4	2155.2	2146.9	2146.9	2160.4
10°	2136.6	2131.4	2127.3	2125.2	2129.4
12.5°	2109.7	2101.4	2104.5	2101.4	2100.4
15°	2069.4	2065.2	2067.3	2066.3	2062.1
17.5°	2025.9	2023.9	2028.0	2020.8	2023.9
20°	1979.4	1973.2	1975.3	1971.1	1975.3
22.5°	1926.7	1922.5	1917.4	1912.2	1920.5
25°	1864.6	1859.4	1854.3	1852.2	1858.4
27.5°	1802.6	1794.3	1787.0	1785.0	1794.3
30°	1730.2	1720.9	1712.6	1710.5	1717.8
32.5°	1644.3	1642.3	1631.9	1627.8	1630.9
35°	1554.4	1552.3	1547.1	1539.9	1543.0
37.5°	1468.5	1467.5	1460.2	1447.8	1439.6
40°	1376.5	1369.2	1364.1	1346.5	1340.3
42.5°	1275.1	1273.1	1263.8	1244.1	1236.9
45°	1181.0	1172.7	1160.3	1139.7	1137.6
47.5°	1083.8	1072.4	1061.1	1035.2	1034.2
50°	983.5	975.2	961.8	935.9	925.6
52.5°	890.4	879.0	860.4	835.6	830.4
55°	801.5	784.9	765.3	744.6	739.4
57.5°	706.3	699.1	675.3	658.8	652.6
60°	622.6	616.4	592.6	577.1	577.1
62.5°	547.1	537.8	517.1	506.7	506.7
65°	473.7	466.4	448.8	444.7	442.6
67.5°	410.6	401.3	388.8	387.8	393.0
70°	355.8	344.4	334.0	344.4	347.5
72.5°	304.0	296.8	287.5	300.9	307.1
75°	257.5	251.3	246.1	257.5	266.8
77.5°	215.1	208.9	208.9	221.3	229.6
80°	172.7	168.6	172.7	183.0	191.3
82.5°	132.4	129.3	134.4	144.8	150.0
85°	90.0	84.8	91.0	100.3	101.3
87.5°	42.4	41.4	45.5	51.7	50.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)