

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: P293140

Luminaire Tested: **24GR-LD5-64-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293140  
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-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F1 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6006.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 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

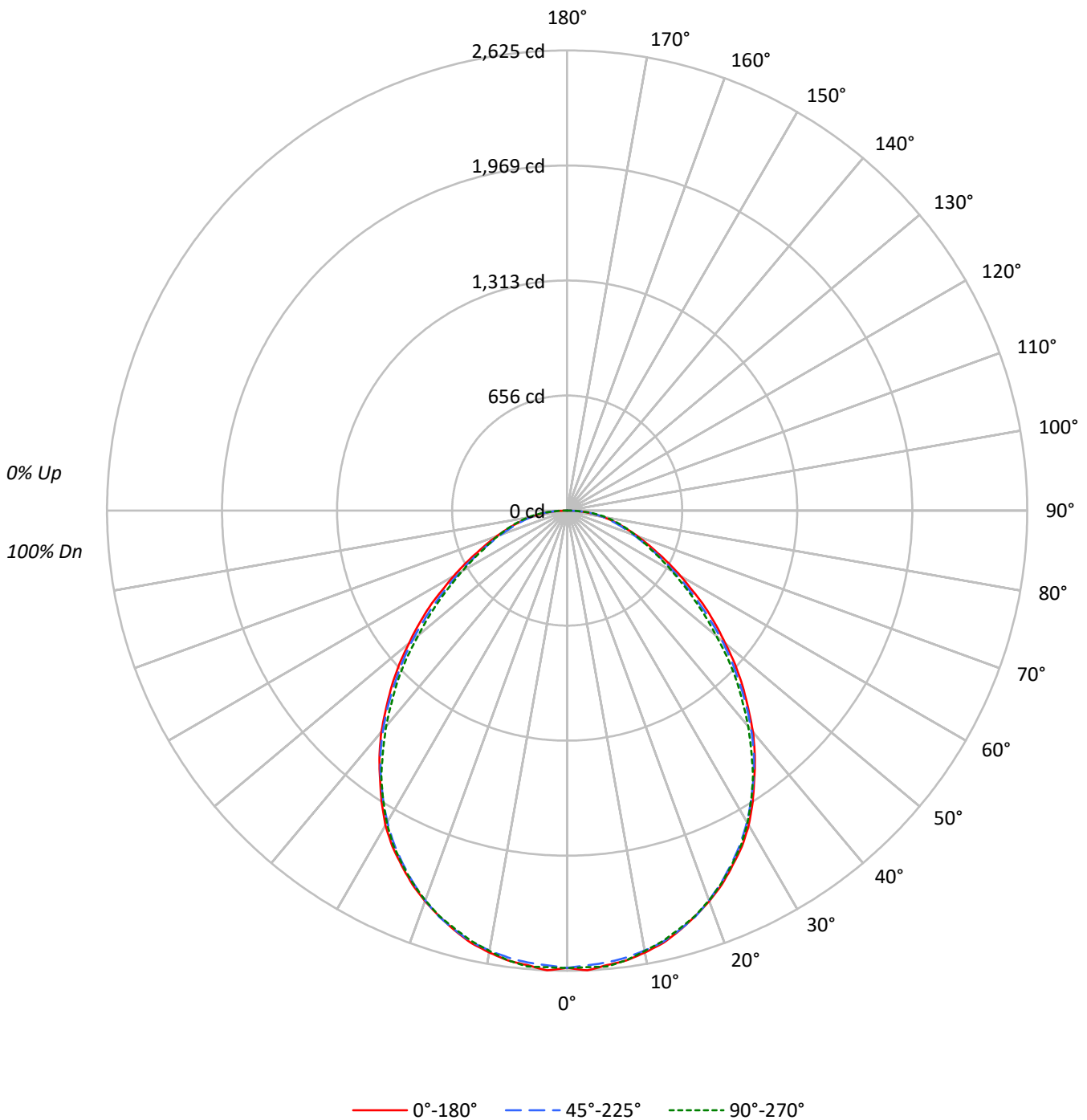
Input Watts (W): 47.244  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3510	3510	3510
5°	3515	3495	3525
10°	3497	3481	3485
15°	3453	3449	3441
20°	3395	3388	3388
25°	3316	3297	3305
30°	3220	3187	3197
35°	3058	3044	3036
40°	2896	2870	2820
45°	2692	2645	2593
50°	2466	2412	2321
55°	2252	2150	2078
60°	2007	1910	1860
65°	1806	1712	1688
70°	1676	1574	1637
75°	1604	1533	1661
80°	1603	1603	1776
85°	1664	1683	1874



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.4	4.1
10°-20°	697.2	11.6
20°-30°	1023.3	17.0
30°-40°	1156.9	19.3
40°-50°	1069.2	17.8
50°-60°	823.8	13.7
60°-70°	545.5	9.1
70°-80°	324.7	5.4
80°-90°	119.0	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°	1966.9	32.7
0°-40°	3123.8	52.0
0°-60°	5016.8	83.5
0°-90°	6006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6006.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2603	2603	2588	2589	2610	247
15°	2479	2474	2476	2475	2470	699
25°	2234	2227	2221	2219	2226	1028
35°	1862	1859	1853	1844	1848	1165
45°	1415	1405	1390	1365	1363	1090
55°	960	940	917	892	886	856
65°	567	559	538	533	530	569
75°	308	301	295	308	320	329
85°	108	102	109	120	121	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2608.9	2608.9	2608.9	2608.9	2608.9
2.5°	2625.0	2611.3	2596.5	2596.5	2607.6
5°	2602.7	2602.7	2587.8	2589.0	2610.1
7.5°	2589.0	2581.6	2571.7	2571.7	2587.8
10°	2559.3	2553.1	2548.2	2545.7	2550.6
12.5°	2527.1	2517.2	2520.9	2517.2	2516.0
15°	2478.8	2473.8	2476.3	2475.1	2470.1
17.5°	2426.8	2424.3	2429.2	2420.6	2424.3
20°	2371.0	2363.6	2366.1	2361.1	2366.1
22.5°	2307.8	2302.9	2296.7	2290.5	2300.4
25°	2233.5	2227.3	2221.1	2218.6	2226.1
27.5°	2159.2	2149.3	2140.6	2138.1	2149.3
30°	2072.5	2061.3	2051.4	2048.9	2057.6
32.5°	1969.7	1967.2	1954.8	1949.8	1953.6
35°	1861.9	1859.4	1853.2	1844.5	1848.3
37.5°	1759.1	1757.8	1749.2	1734.3	1724.4
40°	1648.8	1640.1	1633.9	1612.9	1605.5
42.5°	1527.4	1524.9	1513.8	1490.2	1481.6
45°	1414.7	1404.8	1389.9	1365.1	1362.7
47.5°	1298.2	1284.6	1271.0	1240.0	1238.8
50°	1178.1	1168.2	1152.1	1121.1	1108.7
52.5°	1066.6	1053.0	1030.7	1000.9	994.7
55°	960.1	940.2	916.7	891.9	885.7
57.5°	846.1	837.4	808.9	789.1	781.7
60°	745.7	738.3	709.8	691.2	691.2
62.5°	655.3	644.2	619.4	607.0	607.0
65°	567.4	558.7	537.6	532.7	530.2
67.5°	491.8	480.6	465.8	464.5	470.7
70°	426.1	412.5	400.1	412.5	416.2
72.5°	364.2	355.5	344.4	360.5	367.9
75°	308.5	301.0	294.8	308.5	319.6
77.5°	257.7	250.2	250.2	265.1	275.0
80°	206.9	201.9	206.9	219.3	229.2
82.5°	158.6	154.8	161.0	173.4	179.6
85°	107.8	101.6	109.0	120.2	121.4
87.5°	50.8	49.6	54.5	61.9	60.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)