

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: P293250

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293250  
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-LD5-48-F125-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5069.0 lumens  
Efficiency: N/A  
Efficacy: 147.7 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

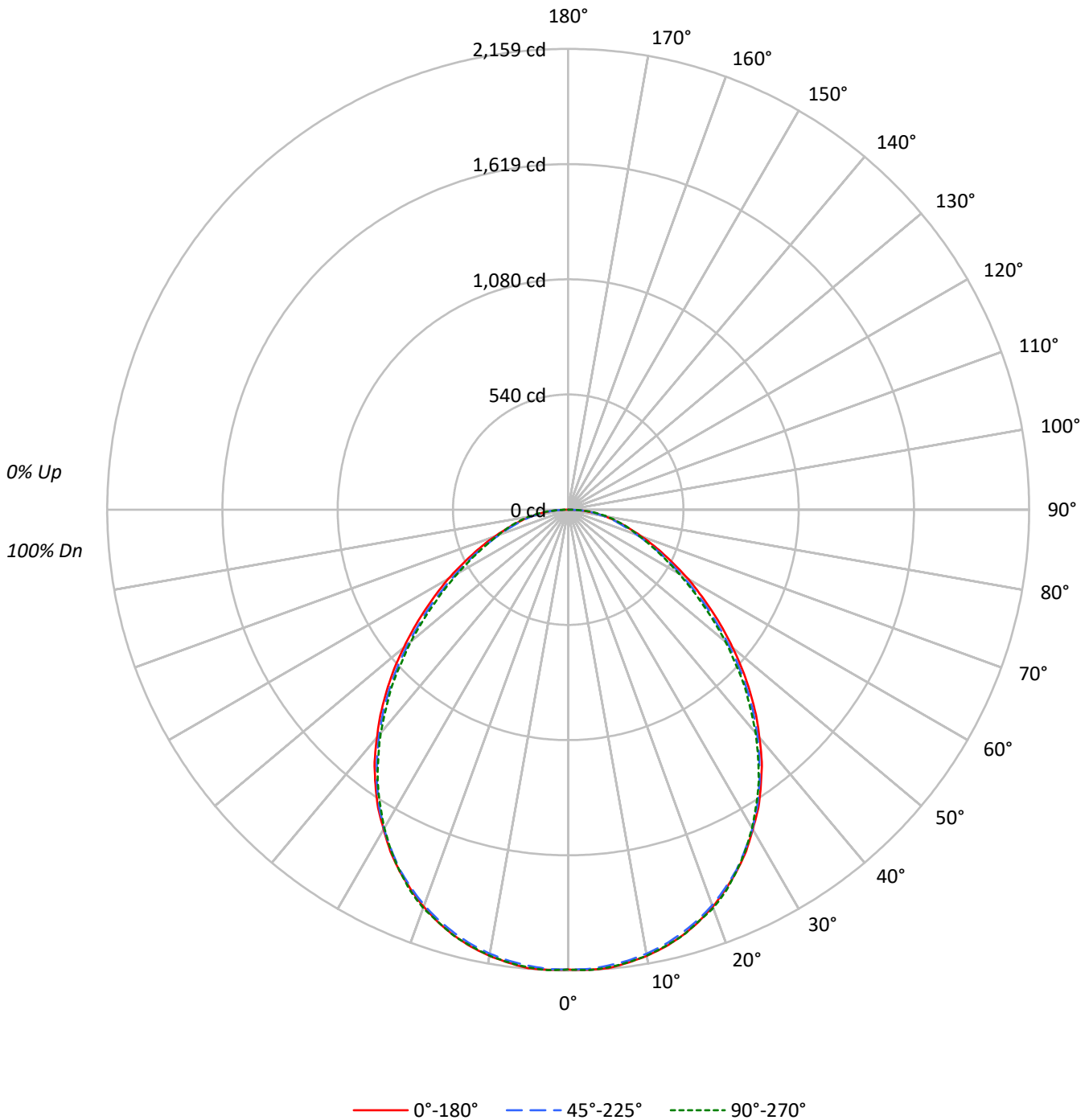
Input Watts (W): 34.317  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2899	2899	2899
5°	2912	2896	2907
10°	2900	2886	2899
15°	2877	2862	2880
20°	2835	2824	2844
25°	2774	2767	2772
30°	2686	2681	2675
35°	2585	2565	2555
40°	2447	2419	2399
45°	2289	2246	2219
50°	2103	2047	2012
55°	1918	1848	1794
60°	1742	1648	1605
65°	1569	1481	1456
70°	1437	1343	1381
75°	1343	1281	1376
80°	1332	1308	1437
85°	1357	1369	1565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.9	4.0
10°-20°	579.7	11.4
20°-30°	856.3	16.9
30°-40°	973.6	19.2
40°-50°	909.2	17.9
50°-60°	707.0	13.9
60°-70°	469.1	9.3
70°-80°	271.5	5.4
80°-90°	98.7	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°	1639.9	32.4
0°-40°	2613.4	51.6
0°-60°	4229.6	83.4
0°-90°	5069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2154	2154	2154	2154	2154	
5°	2156	2145	2144	2148	2153	205
15°	2066	2055	2054	2054	2067	582
25°	1868	1860	1864	1860	1868	859
35°	1574	1566	1562	1551	1555	982
45°	1203	1193	1181	1166	1166	927
55°	818	806	788	767	765	733
65°	493	478	465	456	457	493
75°	258	252	246	258	265	276
85°	88	86	89	101	101	96
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2157.5	2151.2	2154.3	2151.9	2159.1
5°	2155.9	2144.8	2144.0	2148.0	2152.7
7.5°	2140.9	2129.0	2131.3	2131.3	2139.3
10°	2122.6	2110.7	2112.3	2113.1	2121.8
12.5°	2098.1	2086.2	2087.0	2086.2	2094.9
15°	2065.6	2055.3	2054.5	2053.7	2067.2
17.5°	2026.0	2011.7	2016.5	2017.3	2024.4
20°	1980.0	1968.9	1972.1	1971.3	1986.4
22.5°	1925.3	1917.4	1919.8	1918.2	1932.5
25°	1868.3	1860.4	1863.5	1859.6	1867.5
27.5°	1804.1	1798.6	1795.4	1793.0	1798.6
30°	1728.8	1725.7	1725.7	1715.4	1721.7
32.5°	1657.5	1647.2	1647.2	1643.3	1639.3
35°	1573.6	1565.6	1561.7	1550.6	1555.3
37.5°	1489.6	1471.3	1469.8	1461.0	1461.0
40°	1392.9	1382.6	1377.1	1367.5	1366.0
42.5°	1301.0	1290.7	1281.2	1265.3	1262.2
45°	1202.7	1193.2	1180.6	1165.5	1166.3
47.5°	1105.3	1091.8	1079.9	1061.7	1059.3
50°	1004.7	995.2	977.7	961.9	961.1
52.5°	910.4	895.3	879.5	860.5	860.5
55°	817.7	805.8	787.6	767.0	764.6
57.5°	728.9	717.8	697.2	682.2	678.2
60°	647.3	631.5	612.5	599.8	596.6
62.5°	565.7	551.5	537.2	524.5	523.7
65°	492.8	477.8	465.1	456.4	457.2
67.5°	427.1	414.4	400.1	397.7	398.5
70°	365.3	351.8	341.5	347.0	351.0
72.5°	306.6	299.5	292.4	300.3	305.8
75°	258.3	252.0	246.4	257.5	264.6
77.5°	213.9	209.2	208.4	217.9	224.2
80°	171.9	166.4	168.8	179.9	185.4
82.5°	130.7	126.8	127.6	141.0	145.0
85°	87.9	86.4	88.7	100.6	101.4
87.5°	46.7	46.7	48.3	55.5	53.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)