

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: P475630

Luminaire Tested: **24GR-LD5-48-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475630  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-48-F125-UNV-L850-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4952.9 lumens  
Efficiency: N/A  
Efficacy: 150.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

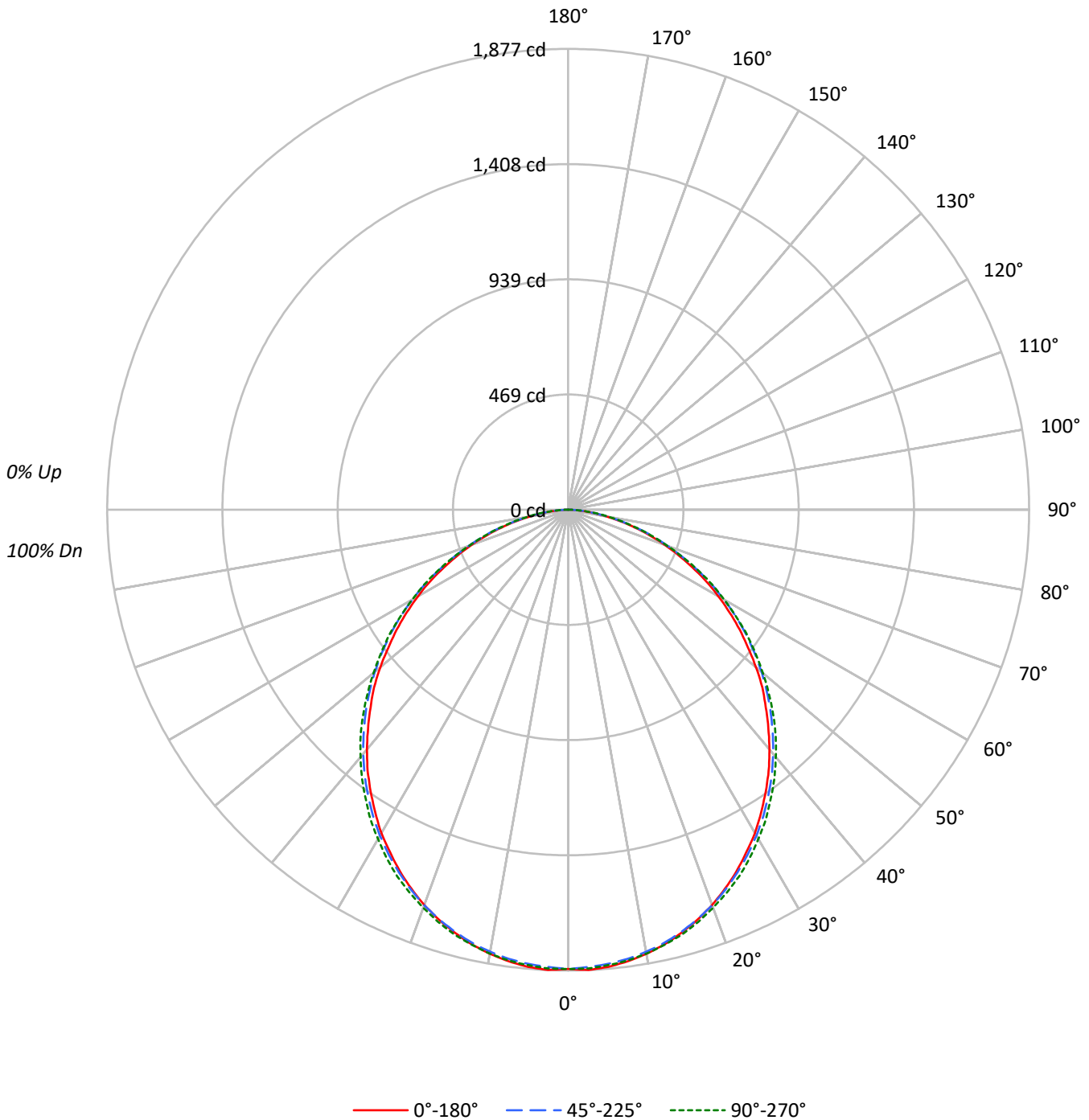
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2517	2517	2517
5°	2524	2509	2516
10°	2510	2498	2508
15°	2485	2480	2495
20°	2453	2454	2470
25°	2411	2420	2446
30°	2363	2381	2406
35°	2303	2334	2361
40°	2239	2280	2310
45°	2165	2218	2247
50°	2090	2151	2166
55°	2000	2071	2087
60°	1904	1969	1971
65°	1779	1848	1857
70°	1648	1694	1689
75°	1464	1516	1521
80°	1225	1268	1316
85°	919	988	1024



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.7	3.6
10°-20°	502.8	10.2
20°-30°	751.6	15.2
30°-40°	888.0	17.9
40°-50°	896.5	18.1
50°-60°	782.3	15.8
60°-70°	570.3	11.5
70°-80°	307.6	6.2
80°-90°	77.0	1.6
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°	1431.2	28.9
0°-40°	2319.2	46.8
0°-60°	3998.0	80.7
0°-90°	4952.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4952.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1869	1862	1857	1859	1863	177
15°	1784	1780	1780	1784	1791	503
25°	1624	1624	1630	1641	1647	748
35°	1402	1406	1421	1435	1438	877
45°	1138	1146	1166	1180	1181	879
55°	852	863	883	886	890	762
65°	559	571	580	582	583	555
75°	282	284	292	293	293	299
85°	60	61	64	67	66	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1870.5	1870.5	1870.5	1870.5	1870.5
2.5°	1876.7	1869.9	1864.6	1865.7	1870.2
5°	1869.1	1862.4	1857.3	1859.0	1862.6
7.5°	1855.6	1849.5	1845.5	1847.2	1852.0
10°	1837.1	1832.0	1828.4	1830.9	1836.0
12.5°	1813.5	1808.5	1807.1	1810.7	1815.2
15°	1784.0	1780.4	1780.1	1784.3	1791.1
17.5°	1750.9	1747.3	1749.2	1754.8	1760.7
20°	1713.3	1709.9	1713.8	1721.4	1725.4
22.5°	1670.3	1667.5	1674.5	1682.4	1687.4
25°	1623.7	1624.0	1630.2	1640.6	1647.3
27.5°	1572.0	1574.0	1583.3	1593.4	1600.1
30°	1521.2	1519.5	1532.7	1543.7	1548.7
32.5°	1462.3	1463.1	1478.6	1489.8	1497.4
35°	1401.9	1405.8	1421.0	1434.8	1437.6
37.5°	1341.0	1343.8	1362.0	1375.5	1379.2
40°	1275.0	1280.0	1298.0	1310.6	1315.1
42.5°	1206.2	1212.7	1232.0	1245.2	1251.1
45°	1138.0	1146.1	1165.8	1180.4	1180.7
47.5°	1072.0	1077.9	1097.0	1109.9	1108.5
50°	998.4	1007.1	1027.6	1035.5	1034.6
52.5°	923.2	936.4	955.2	961.4	960.5
55°	852.4	862.8	883.0	886.4	889.5
57.5°	779.1	788.1	810.0	811.4	810.9
60°	707.5	715.7	731.7	735.6	732.5
62.5°	635.4	643.5	657.9	661.8	661.2
65°	558.7	570.8	580.4	581.5	583.4
67.5°	487.4	495.0	504.3	506.0	504.5
70°	418.9	425.4	430.7	431.8	429.3
72.5°	348.2	354.1	361.6	363.0	360.2
75°	281.6	284.4	291.7	292.8	292.6
77.5°	217.0	219.3	224.6	228.8	229.4
80°	158.1	158.9	163.7	166.8	169.9
82.5°	104.7	107.0	110.6	113.7	116.5
85°	59.5	60.9	64.0	67.1	66.3
87.5°	23.0	26.1	26.4	29.5	30.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)