

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: P475809

Luminaire Tested: **24GR-LD5-42-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475809  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-A125-UNV-L850-CD1-U  
Description: GR 2'X4' LED TROFFER w/ A125 LENS  
Light Source: 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4392.5 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

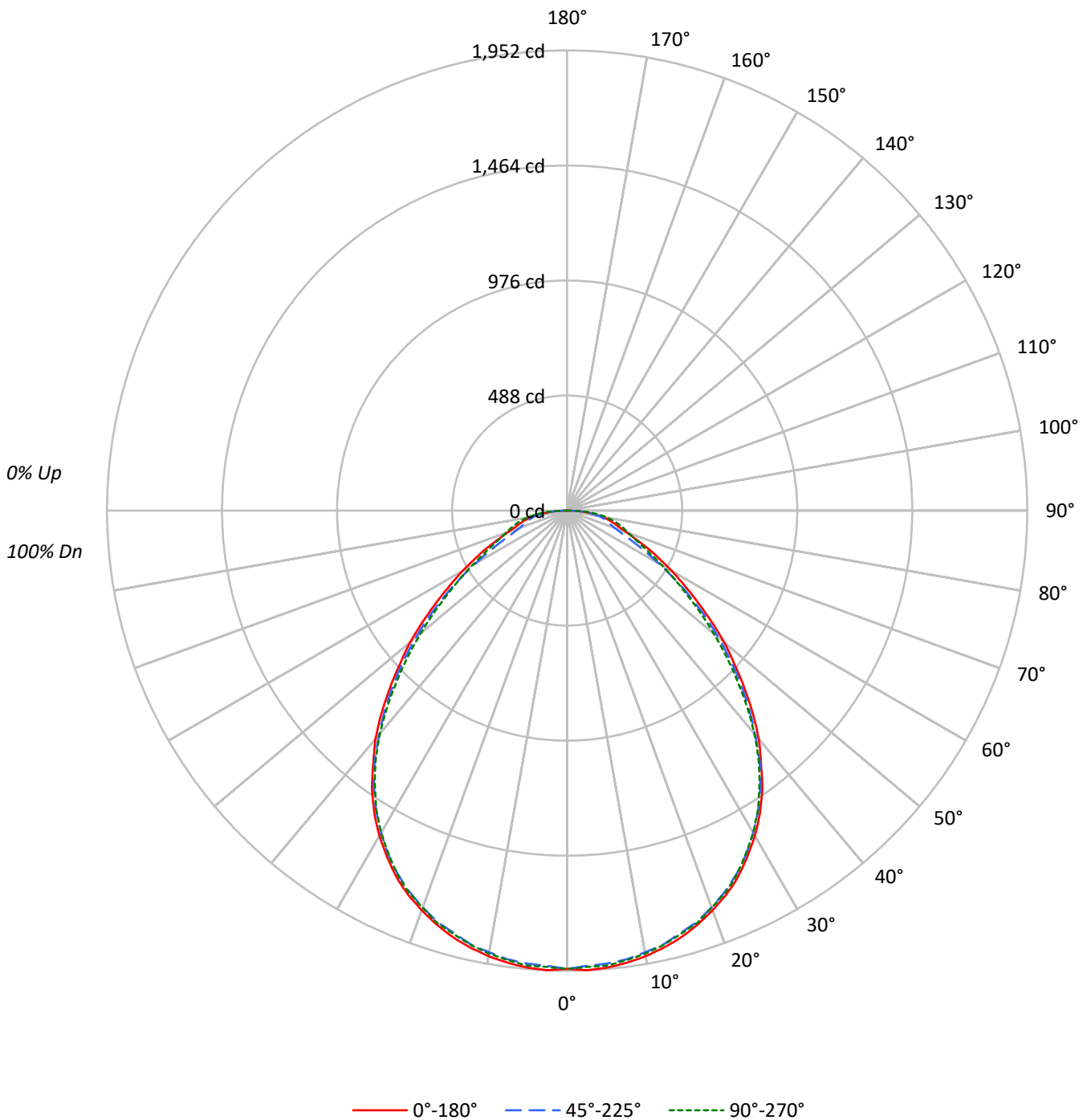
Input Watts (W): 30.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

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

	0°	45°	90°
0°	2616	2616	2616
5°	2628	2605	2616
10°	2622	2600	2607
15°	2609	2584	2590
20°	2583	2565	2566
25°	2546	2525	2529
30°	2475	2453	2451
35°	2371	2348	2336
40°	2222	2178	2169
45°	2022	1982	1944
50°	1821	1756	1699
55°	1580	1494	1449
60°	1380	1204	1246
65°	1194	957	1108
70°	1053	840	1082
75°	1057	913	1184
80°	1158	1084	1340
85°	1221	1181	1536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.7	4.2
10°-20°	525.0	12.0
20°-30°	782.8	17.8
30°-40°	889.8	20.3
40°-50°	801.9	18.3
50°-60°	577.6	13.2
60°-70°	336.0	7.6
70°-80°	205.6	4.7
80°-90°	90.0	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°	1491.5	34.0
0°-40°	2381.3	54.2
0°-60°	3760.9	85.6
0°-90°	4392.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4392.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1946	1932	1929	1933	1937	185
15°	1873	1863	1855	1858	1859	528
25°	1715	1704	1701	1698	1703	788
35°	1444	1434	1429	1421	1422	898
45°	1063	1051	1042	1026	1022	820
55°	674	658	637	630	618	607
65°	375	337	301	324	348	375
75°	203	184	176	200	228	217
85°	79	78	76	104	100	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1944.1	1944.1	1944.1	1944.1	1944.1
2.5°	1951.9	1941.5	1932.8	1933.2	1937.6
5°	1945.8	1932.4	1928.9	1932.8	1937.2
7.5°	1935.0	1922.4	1920.2	1918.0	1923.3
10°	1919.3	1910.7	1902.8	1905.0	1908.0
12.5°	1898.5	1891.1	1885.4	1881.1	1887.6
15°	1873.3	1862.9	1855.0	1858.1	1859.4
17.5°	1841.6	1831.6	1829.4	1827.7	1834.2
20°	1803.8	1797.7	1791.2	1792.9	1792.0
22.5°	1763.8	1754.7	1749.4	1746.8	1753.8
25°	1714.7	1704.2	1700.8	1698.2	1703.4
27.5°	1654.7	1649.1	1644.3	1640.8	1641.2
30°	1593.0	1587.4	1578.7	1576.1	1577.8
32.5°	1522.2	1515.7	1507.8	1500.0	1505.7
35°	1443.5	1433.5	1429.2	1420.9	1422.2
37.5°	1350.5	1346.2	1342.3	1331.4	1334.9
40°	1264.9	1253.2	1240.2	1233.6	1234.9
42.5°	1165.9	1153.7	1143.3	1134.1	1129.8
45°	1062.9	1050.7	1041.6	1025.5	1021.6
47.5°	960.3	949.0	939.0	926.4	915.1
50°	869.9	849.1	839.1	826.1	811.7
52.5°	768.3	756.1	736.5	725.7	712.6
55°	673.5	657.5	637.0	630.5	617.9
57.5°	588.4	571.0	541.0	538.4	538.0
60°	512.8	489.3	447.6	450.6	463.2
62.5°	439.3	405.9	368.1	381.5	400.2
65°	375.0	337.2	300.7	324.2	348.1
67.5°	313.3	279.4	248.6	279.8	305.0
70°	267.7	239.4	213.4	246.8	275.1
72.5°	229.4	207.7	190.8	221.2	251.6
75°	203.4	184.2	175.6	199.9	227.7
77.5°	179.0	162.1	159.5	181.2	201.6
80°	149.5	137.7	139.9	162.1	172.9
82.5°	113.8	110.4	110.8	138.6	140.8
85°	79.1	78.2	76.5	103.9	99.5
87.5°	40.0	40.8	40.4	59.1	53.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)