

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: P475584

Luminaire Tested: **24GR-LD5-42-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475584  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-F125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4138.7 lumens  
Efficiency: N/A  
Efficacy: 136.6 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

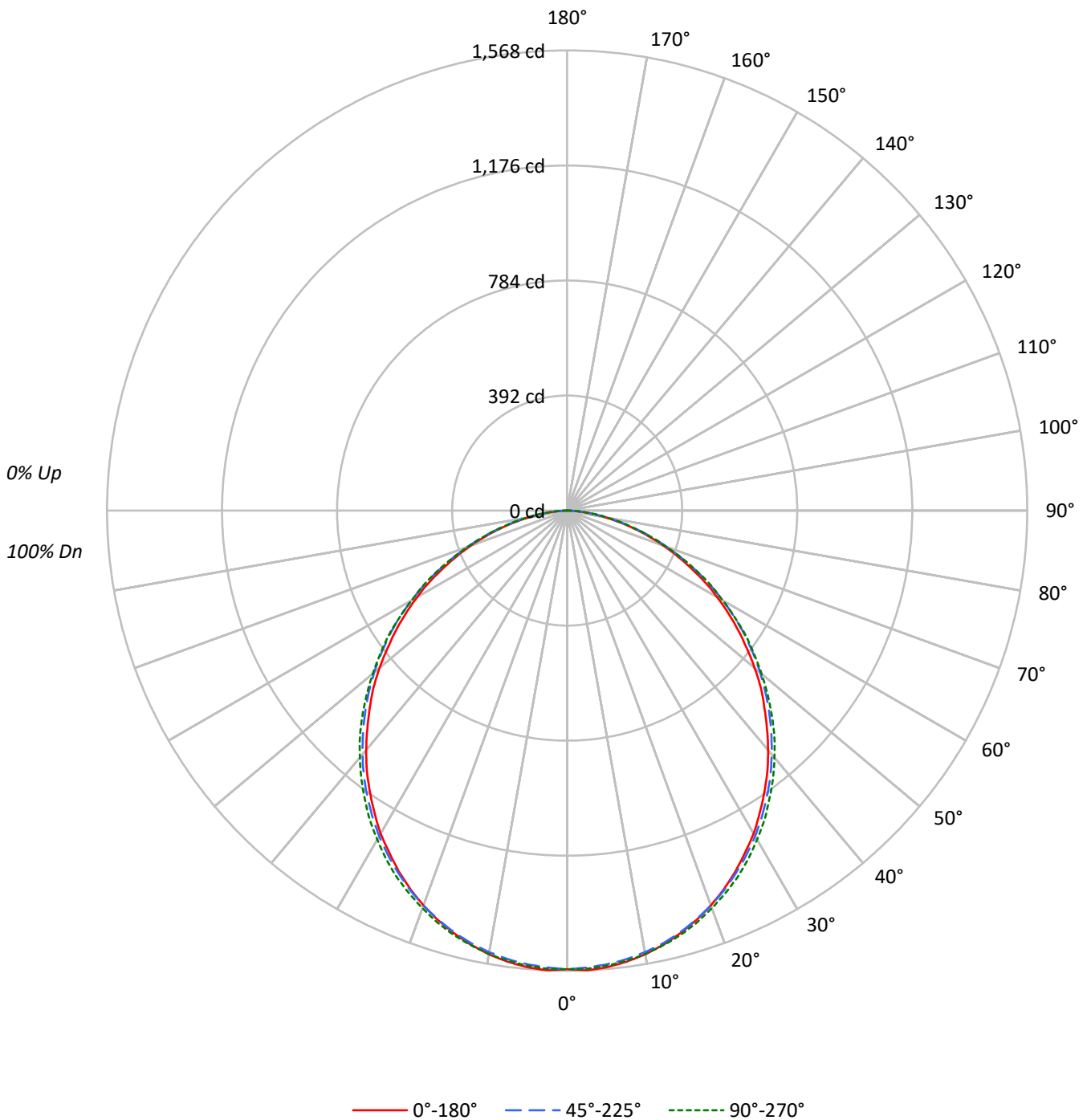
Input Watts (W): 30.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2103	2103	2103
5°	2109	2096	2102
10°	2097	2087	2096
15°	2077	2072	2085
20°	2050	2051	2064
25°	2014	2022	2044
30°	1975	1990	2011
35°	1924	1950	1973
40°	1871	1905	1930
45°	1809	1854	1877
50°	1746	1797	1810
55°	1671	1731	1744
60°	1591	1645	1647
65°	1486	1544	1552
70°	1377	1416	1411
75°	1223	1267	1271
80°	1024	1060	1099
85°	767	826	855



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	3.6
10°-20°	420.2	10.2
20°-30°	628.1	15.2
30°-40°	742.0	17.9
40°-50°	749.1	18.1
50°-60°	653.7	15.8
60°-70°	476.6	11.5
70°-80°	257.0	6.2
80°-90°	64.3	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°	1195.9	28.9
0°-40°	1938.0	46.8
0°-60°	3340.8	80.7
0°-90°	4138.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1562	1556	1552	1553	1556	148
15°	1491	1488	1488	1491	1497	420
25°	1357	1357	1362	1371	1376	625
35°	1171	1175	1187	1199	1201	733
45°	951	958	974	986	987	734
55°	712	721	738	741	743	637
65°	467	477	485	486	488	464
75°	235	238	244	245	244	250
85°	50	51	54	56	55	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1563.0	1563.0	1563.0	1563.0	1563.0
2.5°	1568.2	1562.6	1558.1	1559.0	1562.8
5°	1561.8	1556.2	1552.0	1553.4	1556.5
7.5°	1550.6	1545.4	1542.1	1543.5	1547.5
10°	1535.1	1530.9	1527.8	1529.9	1534.2
12.5°	1515.4	1511.2	1510.0	1513.0	1516.8
15°	1490.8	1487.7	1487.5	1491.0	1496.6
17.5°	1463.1	1460.0	1461.7	1466.4	1471.3
20°	1431.6	1428.8	1432.1	1438.4	1441.7
22.5°	1395.7	1393.4	1399.3	1405.8	1410.1
25°	1356.8	1357.0	1362.2	1370.9	1376.5
27.5°	1313.6	1315.3	1323.0	1331.5	1337.1
30°	1271.2	1269.7	1280.8	1289.9	1294.1
32.5°	1221.9	1222.6	1235.5	1244.9	1251.2
35°	1171.4	1174.7	1187.4	1198.9	1201.2
37.5°	1120.5	1122.9	1138.1	1149.4	1152.4
40°	1065.4	1069.6	1084.6	1095.2	1098.9
42.5°	1007.9	1013.3	1029.5	1040.5	1045.5
45°	950.9	957.7	974.1	986.3	986.6
47.5°	895.8	900.7	916.7	927.4	926.3
50°	834.3	841.6	858.7	865.3	864.6
52.5°	771.4	782.4	798.2	803.3	802.6
55°	712.3	721.0	737.9	740.7	743.3
57.5°	651.1	658.6	676.9	678.0	677.6
60°	591.2	598.0	611.4	614.7	612.1
62.5°	530.9	537.7	549.7	553.0	552.5
65°	466.9	477.0	485.0	485.9	487.5
67.5°	407.3	413.6	421.4	422.8	421.6
70°	350.0	355.4	359.9	360.8	358.7
72.5°	290.9	295.9	302.2	303.4	301.0
75°	235.3	237.7	243.8	244.7	244.5
77.5°	181.4	183.2	187.7	191.2	191.7
80°	132.1	132.8	136.8	139.4	141.9
82.5°	87.5	89.4	92.4	95.0	97.4
85°	49.7	50.9	53.5	56.1	55.4
87.5°	19.2	21.8	22.1	24.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)