

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: P475581

Luminaire Tested: **24GR-LD5-30-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475581  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-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: 2961.5 lumens  
Efficiency: N/A  
Efficacy: 139.0 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

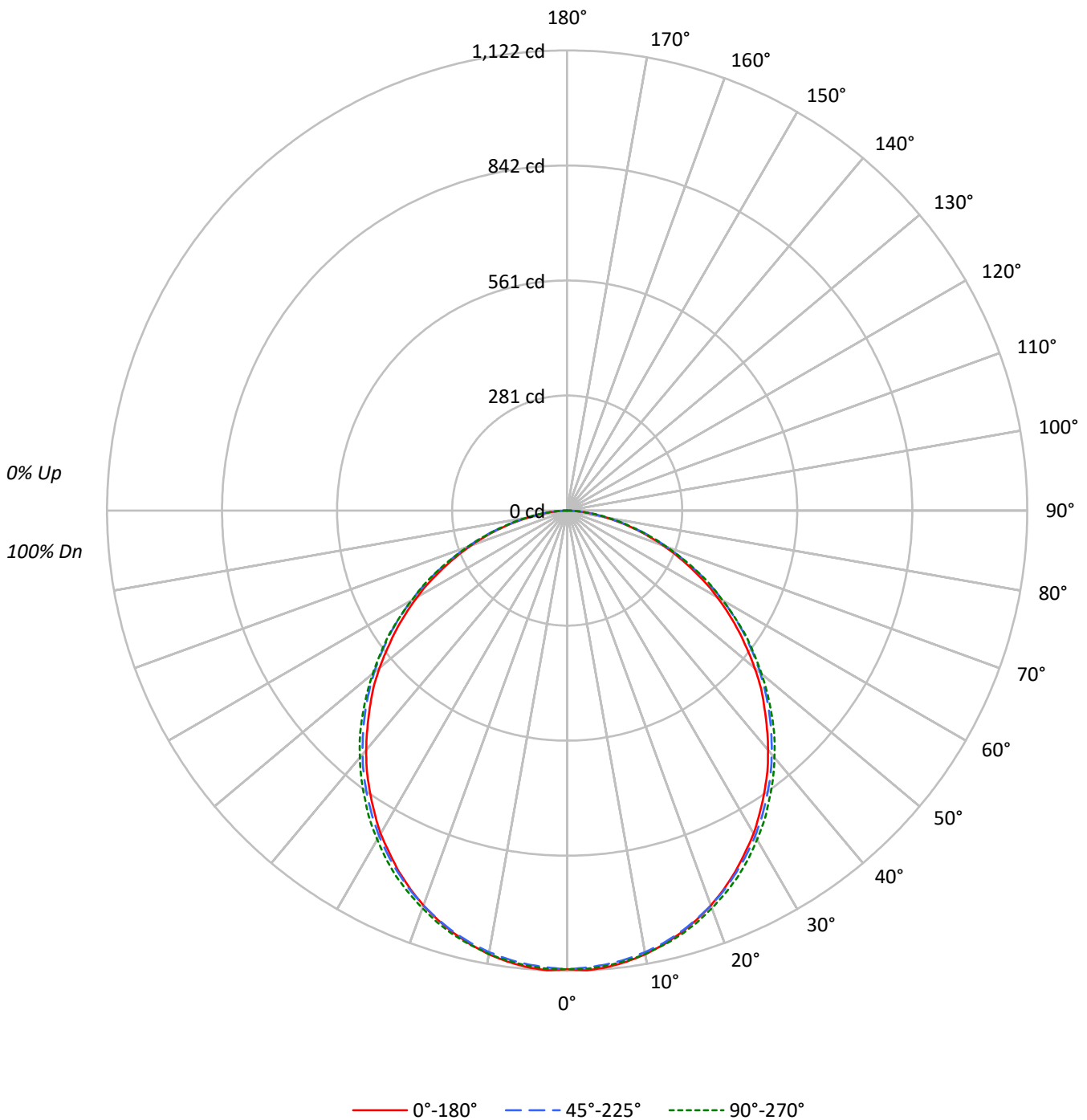
Input Watts (W): 21.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1505	1505	1505
5°	1509	1500	1504
10°	1501	1494	1500
15°	1486	1483	1492
20°	1467	1467	1477
25°	1441	1447	1462
30°	1413	1424	1439
35°	1377	1396	1412
40°	1339	1363	1381
45°	1295	1326	1343
50°	1250	1286	1295
55°	1196	1239	1247
60°	1139	1177	1179
65°	1064	1105	1111
70°	985	1013	1010
75°	875	907	909
80°	732	759	787
85°	550	591	611



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	3.6
10°-20°	300.7	10.2
20°-30°	449.4	15.2
30°-40°	531.0	17.9
40°-50°	536.0	18.1
50°-60°	467.8	15.8
60°-70°	341.0	11.5
70°-80°	183.9	6.2
80°-90°	46.0	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°	855.7	28.9
0°-40°	1386.7	46.8
0°-60°	2390.5	80.7
0°-90°	2961.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1118	1114	1110	1112	1114	106
15°	1067	1064	1064	1067	1071	301
25°	971	971	975	981	985	447
35°	838	841	850	858	860	524
45°	680	685	697	706	706	525
55°	510	516	528	530	532	456
65°	334	341	347	348	349	332
75°	168	170	174	175	175	179
85°	36	36	38	40	40	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1122.1	1118.1	1114.9	1115.6	1118.3
5°	1117.6	1113.6	1110.5	1111.5	1113.7
7.5°	1109.5	1105.8	1103.5	1104.5	1107.3
10°	1098.4	1095.4	1093.2	1094.8	1097.8
12.5°	1084.3	1081.3	1080.5	1082.7	1085.3
15°	1066.7	1064.5	1064.4	1066.9	1070.9
17.5°	1046.9	1044.7	1045.9	1049.3	1052.8
20°	1024.4	1022.4	1024.7	1029.3	1031.6
22.5°	998.7	997.0	1001.2	1005.9	1009.0
25°	970.9	971.0	974.7	980.9	985.0
27.5°	940.0	941.1	946.7	952.7	956.8
30°	909.6	908.6	916.5	923.0	926.0
32.5°	874.3	874.8	884.1	890.8	895.3
35°	838.2	840.6	849.6	857.9	859.5
37.5°	801.8	803.5	814.4	822.4	824.6
40°	762.3	765.4	776.1	783.7	786.4
42.5°	721.2	725.1	736.7	744.6	748.1
45°	680.4	685.3	697.0	705.8	705.9
47.5°	641.0	644.5	655.9	663.6	662.8
50°	597.0	602.2	614.4	619.1	618.6
52.5°	552.0	559.9	571.1	574.8	574.3
55°	509.7	515.9	528.0	530.0	531.8
57.5°	465.9	471.2	484.3	485.2	484.8
60°	423.1	427.9	437.5	439.8	438.0
62.5°	379.9	384.8	393.3	395.7	395.4
65°	334.1	341.3	347.0	347.7	348.9
67.5°	291.4	296.0	301.5	302.5	301.7
70°	250.5	254.3	257.5	258.2	256.7
72.5°	208.2	211.7	216.2	217.1	215.4
75°	168.4	170.1	174.4	175.1	174.9
77.5°	129.8	131.1	134.3	136.8	137.2
80°	94.5	95.0	97.9	99.7	101.6
82.5°	62.6	64.0	66.1	68.0	69.7
85°	35.6	36.4	38.3	40.1	39.6
87.5°	13.8	15.6	15.8	17.6	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)