

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: P219144

Luminaire Tested: **24GR-LD5-30-A125-UNV-L930-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-A125-UNV-L930-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2482.6 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

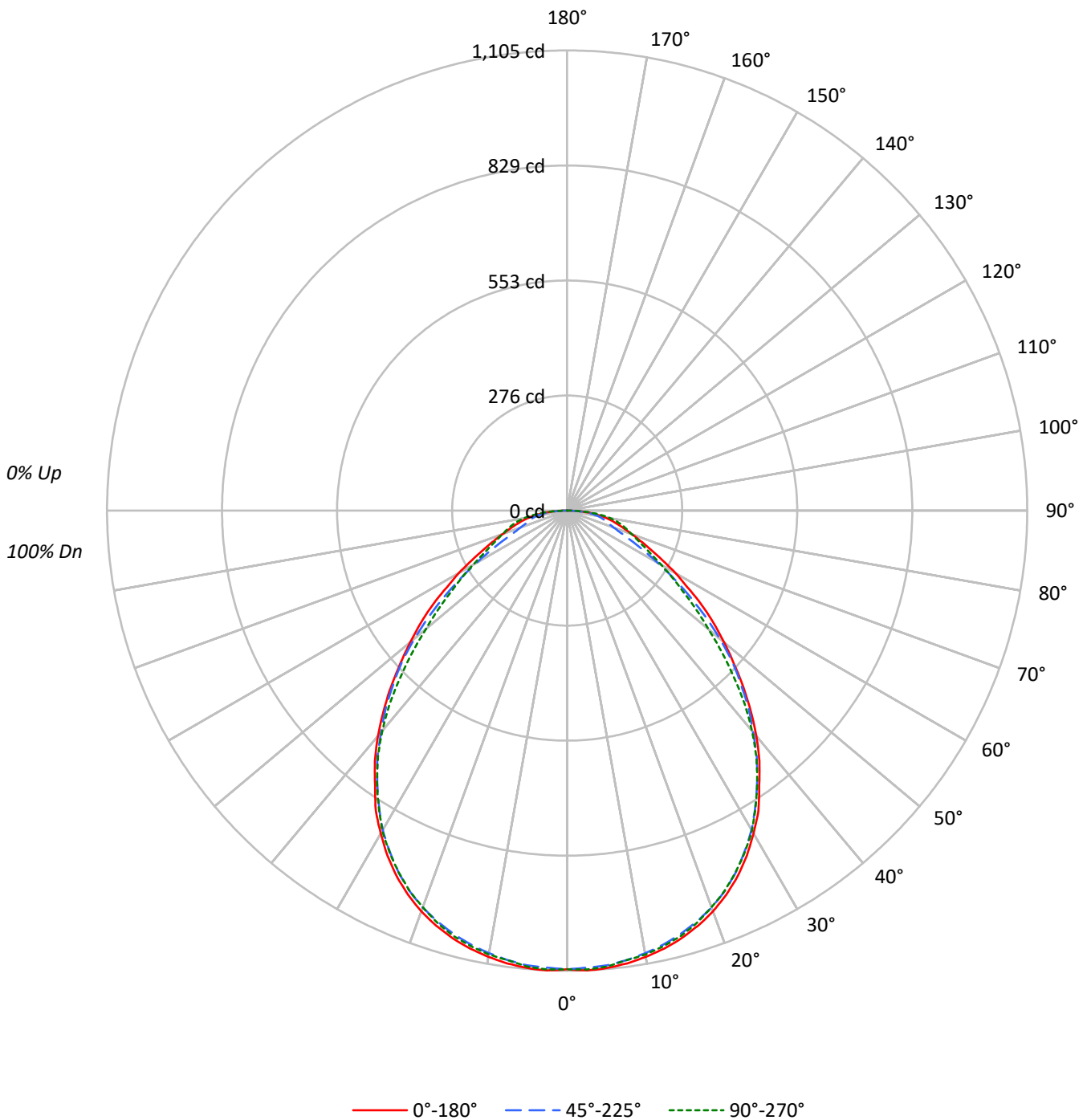
Input Watts (W): 23.434  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

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

	0°	45°	90°
0°	1687	1687	1687
5°	1695	1686	1690
10°	1692	1679	1683
15°	1686	1669	1676
20°	1670	1653	1652
25°	1637	1620	1618
30°	1583	1567	1570
35°	1504	1487	1489
40°	1414	1389	1381
45°	1296	1278	1228
50°	1172	1139	1054
55°	1052	958	908
60°	921	771	799
65°	803	606	735
70°	735	529	735
75°	735	563	810
80°	798	663	923
85°	877	749	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	4.2
10°-20°	297.7	12.0
20°-30°	441.4	17.8
30°-40°	497.9	20.1
40°-50°	451.0	18.2
50°-60°	325.4	13.1
60°-70°	194.3	7.8
70°-80°	120.1	4.8
80°-90°	50.6	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°	843.4	34.0
0°-40°	1341.3	54.0
0°-60°	2117.7	85.3
0°-90°	2482.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1103	1101	1096	1095	1099	105
15°	1063	1057	1052	1053	1057	300
25°	969	963	958	955	958	445
35°	804	803	795	796	796	503
45°	598	594	590	576	567	461
55°	394	382	359	341	340	352
65°	222	195	167	190	203	223
75°	124	108	95	118	137	133
85°	50	44	43	56	56	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1101.5	1101.5	1101.5	1101.5	1101.5
2.5°	1105.4	1102.2	1098.5	1100.8	1102.7
5°	1102.7	1101.1	1096.5	1095.4	1099.2
7.5°	1096.9	1093.1	1088.9	1090.8	1089.2
10°	1088.1	1084.6	1079.3	1079.6	1082.3
12.5°	1077.3	1073.1	1067.4	1068.9	1071.2
15°	1063.1	1056.7	1052.4	1052.8	1057.0
17.5°	1045.1	1040.2	1034.8	1035.9	1037.9
20°	1024.4	1021.7	1014.1	1011.7	1013.7
22.5°	998.4	993.3	989.2	988.0	988.3
25°	968.8	963.4	958.4	955.0	957.7
27.5°	934.3	929.7	923.2	922.0	924.3
30°	895.2	891.8	885.9	884.5	887.9
32.5°	855.3	849.5	841.5	841.5	842.2
35°	804.3	803.1	795.1	795.5	796.2
37.5°	758.3	752.8	748.2	743.7	746.0
40°	707.2	701.1	694.9	691.9	690.8
42.5°	652.4	647.8	645.1	633.9	631.3
45°	598.3	594.5	590.2	575.6	566.9
47.5°	543.1	542.3	538.8	513.2	504.4
50°	491.7	490.5	478.2	451.0	442.2
52.5°	443.0	435.3	419.2	392.4	390.8
55°	393.8	381.6	358.6	341.0	340.2
57.5°	342.1	327.5	304.1	294.5	299.5
60°	300.7	278.5	251.6	252.7	260.8
62.5°	257.7	232.8	206.3	217.9	227.5
65°	221.6	195.2	167.2	189.8	202.9
67.5°	190.2	165.7	138.8	169.2	181.8
70°	164.2	144.2	118.2	150.0	164.2
72.5°	143.4	125.0	104.7	134.6	151.1
75°	124.2	107.7	95.1	118.5	136.9
77.5°	107.7	91.7	85.9	104.7	122.8
80°	90.5	75.9	75.2	91.3	104.7
82.5°	70.6	60.6	60.6	76.3	84.4
85°	49.9	43.7	42.6	55.6	56.4
87.5°	25.7	24.5	22.2	29.1	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)