

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: P475761

Luminaire Tested: **24GR-LD5-30-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475761
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A125-UNV-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2973.5 lumens
Efficiency: N/A
Efficacy: 139.6 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

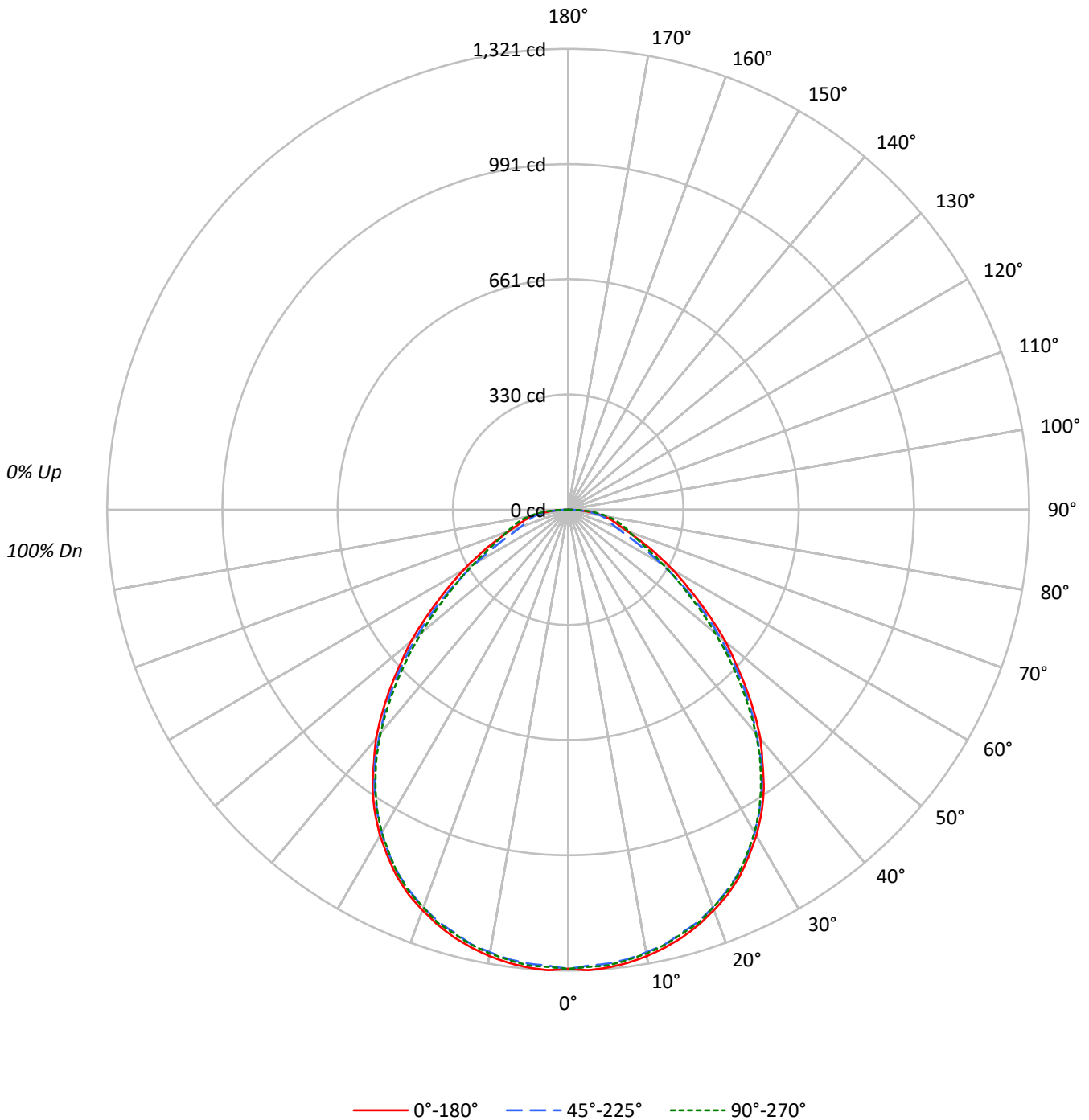
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1771	1771	1771
5°	1779	1764	1771
10°	1775	1760	1765
15°	1767	1749	1753
20°	1748	1736	1737
25°	1723	1709	1712
30°	1675	1660	1659
35°	1605	1589	1581
40°	1504	1475	1468
45°	1369	1342	1316
50°	1233	1189	1150
55°	1070	1012	981
60°	934	815	844
65°	808	648	750
70°	713	568	733
75°	716	618	801
80°	784	734	907
85°	826	800	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	4.2
10°-20°	355.4	12.0
20°-30°	529.9	17.8
30°-40°	602.4	20.3
40°-50°	542.9	18.3
50°-60°	391.0	13.2
60°-70°	227.5	7.6
70°-80°	139.2	4.7
80°-90°	60.9	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°	1009.7	34.0
0°-40°	1612.1	54.2
0°-60°	2546.0	85.6
0°-90°	2973.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1317	1308	1306	1308	1311	125
15°	1268	1261	1256	1258	1259	357
25°	1161	1154	1151	1150	1153	533
35°	977	970	968	962	963	608
45°	720	711	705	694	692	555
55°	456	445	431	427	418	411
65°	254	228	204	219	236	254
75°	138	125	119	135	154	147
85°	54	53	52	70	67	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1321.4	1314.3	1308.5	1308.7	1311.7
5°	1317.3	1308.2	1305.8	1308.5	1311.4
7.5°	1309.9	1301.4	1299.9	1298.4	1302.0
10°	1299.3	1293.4	1288.2	1289.6	1291.7
12.5°	1285.2	1280.2	1276.4	1273.4	1277.9
15°	1268.2	1261.1	1255.8	1257.9	1258.7
17.5°	1246.7	1239.9	1238.4	1237.3	1241.7
20°	1221.1	1217.0	1212.6	1213.7	1213.1
22.5°	1194.0	1187.8	1184.3	1182.5	1187.3
25°	1160.8	1153.7	1151.4	1149.6	1153.1
27.5°	1120.2	1116.4	1113.1	1110.8	1111.1
30°	1078.4	1074.6	1068.7	1066.9	1068.1
32.5°	1030.5	1026.1	1020.8	1015.5	1019.3
35°	977.2	970.5	967.5	961.9	962.8
37.5°	914.3	911.3	908.7	901.3	903.7
40°	856.3	848.4	839.6	835.1	836.0
42.5°	789.2	781.0	774.0	767.8	764.8
45°	719.5	711.3	705.1	694.2	691.6
47.5°	650.1	642.5	635.7	627.2	619.5
50°	588.9	574.8	568.0	559.2	549.5
52.5°	520.1	511.8	498.6	491.3	482.4
55°	456.0	445.1	431.2	426.8	418.3
57.5°	398.3	386.5	366.2	364.5	364.2
60°	347.1	331.2	303.0	305.1	313.6
62.5°	297.4	274.8	249.2	258.3	270.9
65°	253.9	228.3	203.6	219.4	235.6
67.5°	212.1	189.1	168.3	189.4	206.5
70°	181.2	162.1	144.4	167.1	186.2
72.5°	155.3	140.6	129.1	149.7	170.3
75°	137.7	124.7	118.8	135.3	154.1
77.5°	121.2	109.7	108.0	122.7	136.5
80°	101.2	93.3	94.7	109.7	117.1
82.5°	77.1	74.7	75.0	93.8	95.3
85°	53.5	52.9	51.8	70.3	67.4
87.5°	27.1	27.7	27.4	40.0	35.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)