

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: P475791

Luminaire Tested: **24GR-LD5-30-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475791
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-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3139.9 lumens
Efficiency: N/A
Efficacy: 147.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

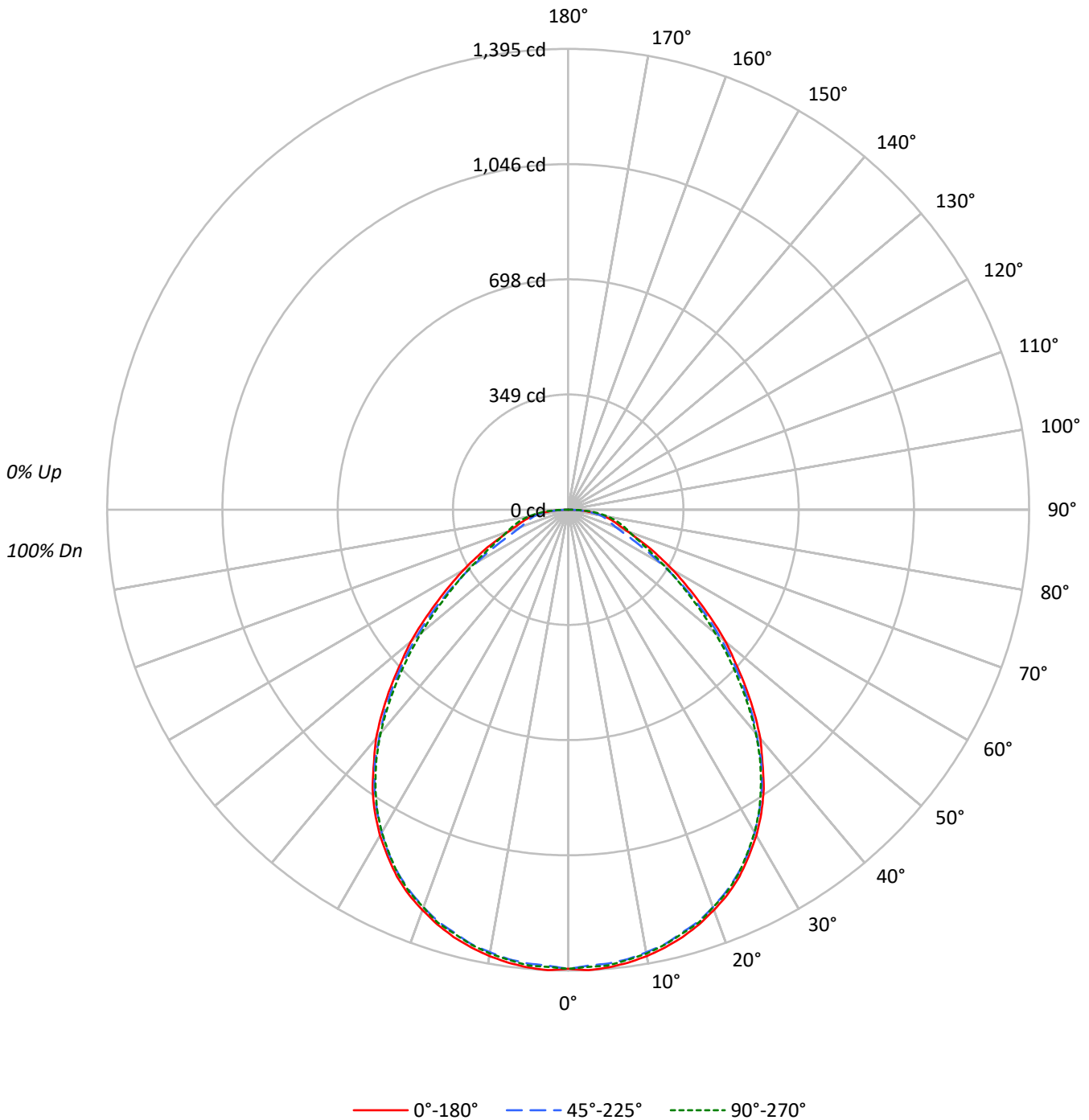
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1870	1870	1870
5°	1879	1862	1870
10°	1874	1858	1864
15°	1865	1847	1852
20°	1846	1833	1834
25°	1820	1805	1808
30°	1769	1753	1752
35°	1695	1678	1670
40°	1588	1557	1551
45°	1446	1417	1390
50°	1302	1256	1215
55°	1129	1068	1036
60°	986	861	891
65°	854	684	792
70°	753	600	773
75°	756	652	846
80°	828	775	958
85°	872	844	1098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	4.2
10°-20°	375.3	12.0
20°-30°	559.5	17.8
30°-40°	636.1	20.3
40°-50°	573.3	18.3
50°-60°	412.9	13.2
60°-70°	240.2	7.6
70°-80°	147.0	4.7
80°-90°	64.3	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°	1066.2	34.0
0°-40°	1702.3	54.2
0°-60°	2688.5	85.6
0°-90°	3139.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3139.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1391	1381	1379	1382	1385	132
15°	1339	1332	1326	1328	1329	377
25°	1226	1218	1216	1214	1218	563
35°	1032	1025	1022	1016	1017	642
45°	760	751	745	733	730	586
55°	482	470	455	451	442	434
65°	268	241	215	232	249	268
75°	145	132	126	143	163	155
85°	56	56	55	74	71	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.7	1389.7	1389.7	1389.7	1389.7
2.5°	1395.3	1387.9	1381.7	1382.0	1385.1
5°	1391.0	1381.4	1378.9	1381.7	1384.8
7.5°	1383.2	1374.2	1372.7	1371.1	1374.8
10°	1372.0	1365.8	1360.2	1361.8	1364.0
12.5°	1357.1	1351.8	1347.8	1344.7	1349.4
15°	1339.1	1331.7	1326.1	1328.2	1329.2
17.5°	1316.4	1309.3	1307.7	1306.5	1311.2
20°	1289.4	1285.1	1280.4	1281.6	1281.0
22.5°	1260.8	1254.3	1250.6	1248.7	1253.7
25°	1225.7	1218.3	1215.8	1213.9	1217.7
27.5°	1182.9	1178.8	1175.4	1172.9	1173.2
30°	1138.8	1134.7	1128.5	1126.6	1127.9
32.5°	1088.1	1083.5	1077.9	1072.3	1076.3
35°	1031.9	1024.8	1021.7	1015.8	1016.7
37.5°	965.4	962.3	959.5	951.8	954.2
40°	904.2	895.8	886.5	881.9	882.8
42.5°	833.4	824.7	817.3	810.7	807.6
45°	759.8	751.1	744.6	733.1	730.3
47.5°	686.5	678.4	671.3	662.3	654.2
50°	621.9	607.0	599.8	590.5	580.3
52.5°	549.2	540.5	526.5	518.7	509.4
55°	481.5	470.0	455.4	450.7	441.7
57.5°	420.6	408.2	386.7	384.9	384.6
60°	366.5	349.8	319.9	322.1	331.1
62.5°	314.0	290.1	263.1	272.7	286.1
65°	268.1	241.0	215.0	231.7	248.8
67.5°	224.0	199.7	177.7	200.0	218.1
70°	191.3	171.2	152.5	176.4	196.6
72.5°	164.0	148.5	136.4	158.1	179.9
75°	145.4	131.7	125.5	142.9	162.8
77.5°	128.0	115.9	114.0	129.5	144.1
80°	106.9	98.5	100.0	115.9	123.6
82.5°	81.4	78.9	79.2	99.1	100.6
85°	56.5	55.9	54.7	74.2	71.1
87.5°	28.6	29.2	28.9	42.2	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)