

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: P475806

Luminaire Tested: **24GR-LD5-30-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475806
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-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3143.0 lumens
Efficiency: N/A
Efficacy: 147.6 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

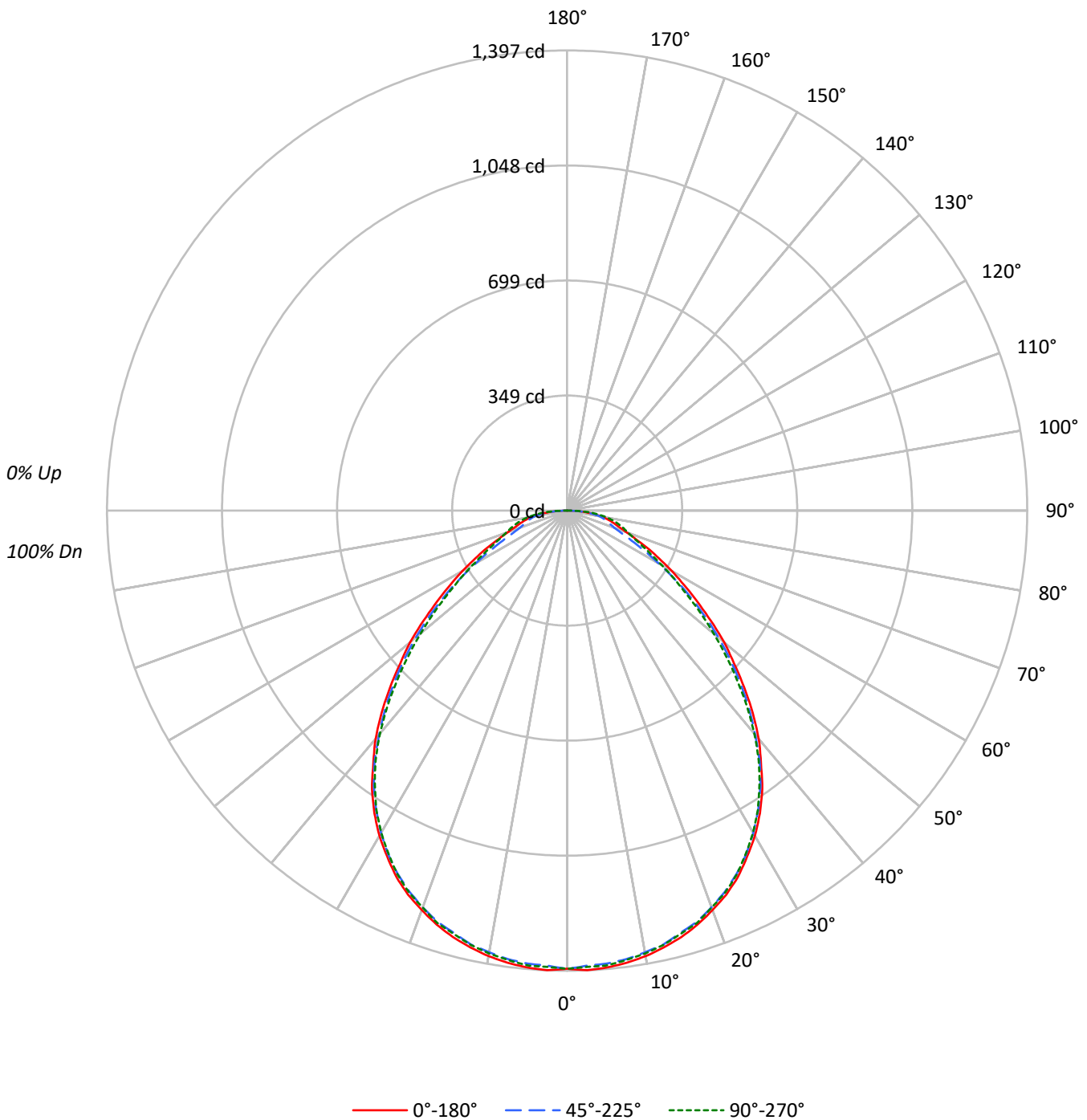
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1872	1872	1872
5°	1881	1864	1872
10°	1876	1860	1865
15°	1867	1849	1853
20°	1848	1835	1836
25°	1821	1807	1810
30°	1771	1755	1754
35°	1697	1680	1672
40°	1590	1559	1552
45°	1447	1418	1391
50°	1303	1257	1216
55°	1130	1069	1037
60°	987	862	892
65°	854	685	793
70°	753	601	774
75°	756	653	847
80°	829	776	959
85°	874	844	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	4.2
10°-20°	375.7	12.0
20°-30°	560.1	17.8
30°-40°	636.7	20.3
40°-50°	573.8	18.3
50°-60°	413.3	13.2
60°-70°	240.4	7.6
70°-80°	147.1	4.7
80°-90°	64.4	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°	1067.2	34.0
0°-40°	1704.0	54.2
0°-60°	2691.1	85.6
0°-90°	3143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1392	1383	1380	1383	1386	132
15°	1340	1333	1327	1330	1330	378
25°	1227	1220	1217	1215	1219	564
35°	1033	1026	1023	1017	1018	643
45°	760	752	745	734	731	587
55°	482	470	456	451	442	435
65°	268	241	215	232	249	268
75°	146	132	126	143	163	155
85°	57	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°	1391.1	1391.1	1391.1	1391.1	1391.1
2.5°	1396.7	1389.2	1383.0	1383.3	1386.4
5°	1392.4	1382.7	1380.2	1383.0	1386.1
7.5°	1384.6	1375.6	1374.0	1372.5	1376.2
10°	1373.4	1367.2	1361.6	1363.1	1365.3
12.5°	1358.5	1353.2	1349.1	1346.0	1350.7
15°	1340.4	1333.0	1327.4	1329.5	1330.5
17.5°	1317.7	1310.6	1309.0	1307.8	1312.4
20°	1290.7	1286.3	1281.7	1282.9	1282.3
22.5°	1262.1	1255.5	1251.8	1249.9	1254.9
25°	1226.9	1219.5	1217.0	1215.1	1218.9
27.5°	1184.0	1180.0	1176.6	1174.1	1174.4
30°	1139.9	1135.8	1129.6	1127.8	1129.0
32.5°	1089.2	1084.5	1078.9	1073.3	1077.4
35°	1032.9	1025.8	1022.7	1016.7	1017.7
37.5°	966.4	963.3	960.5	952.7	955.2
40°	905.1	896.7	887.4	882.7	883.7
42.5°	834.2	825.5	818.1	811.5	808.4
45°	760.5	751.8	745.3	733.8	731.0
47.5°	687.2	679.1	671.9	662.9	654.8
50°	622.5	607.6	600.4	591.1	580.8
52.5°	549.7	541.0	527.0	519.3	509.9
55°	481.9	470.4	455.8	451.2	442.1
57.5°	421.0	408.6	387.1	385.2	384.9
60°	366.9	350.1	320.3	322.4	331.5
62.5°	314.4	290.4	263.4	273.0	286.4
65°	268.3	241.3	215.2	232.0	249.1
67.5°	224.2	199.9	177.9	200.2	218.3
70°	191.5	171.3	152.7	176.6	196.8
72.5°	164.2	148.6	136.5	158.3	180.0
75°	145.5	131.8	125.6	143.0	162.9
77.5°	128.1	116.0	114.1	129.7	144.3
80°	107.0	98.6	100.1	116.0	123.8
82.5°	81.5	79.0	79.3	99.2	100.7
85°	56.6	56.0	54.7	74.3	71.2
87.5°	28.6	29.2	28.9	42.3	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)