

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: P475716

Luminaire Tested: **24GR-LD5-30-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475716
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2977.0 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

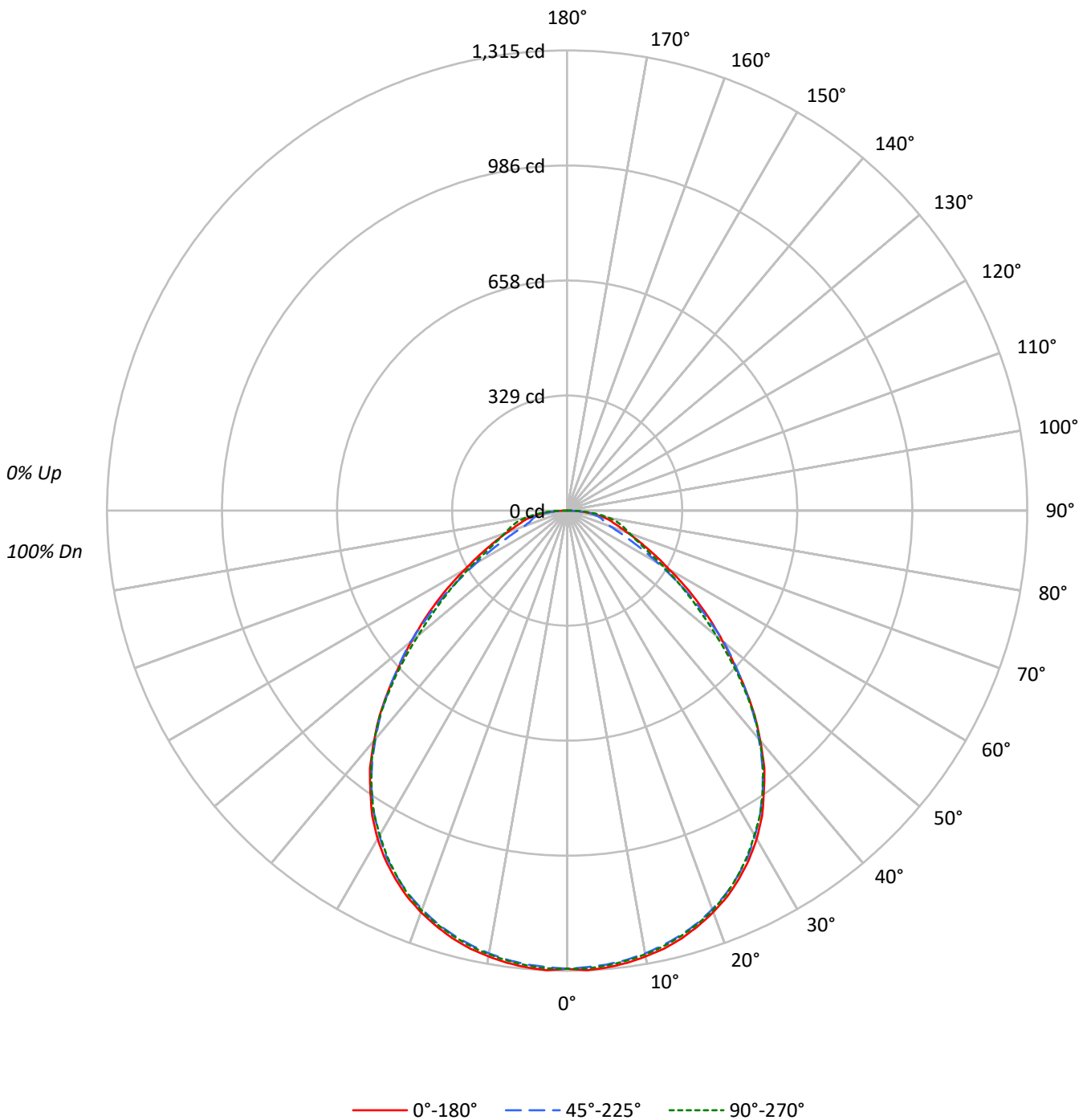
Input Watts (W): 21.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	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	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	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°	1762	1762	1762
5°	1770	1759	1763
10°	1768	1756	1759
15°	1763	1749	1753
20°	1749	1736	1741
25°	1724	1712	1711
30°	1683	1667	1663
35°	1611	1600	1600
40°	1507	1498	1504
45°	1368	1366	1355
50°	1214	1223	1163
55°	1066	1020	996
60°	908	805	847
65°	793	626	748
70°	717	515	746
75°	718	550	833
80°	790	676	954
85°	815	760	1041



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	4.2
10°-20°	355.0	11.9
20°-30°	531.0	17.8
30°-40°	607.6	20.4
40°-50°	550.5	18.5
50°-60°	389.8	13.1
60°-70°	225.2	7.6
70°-80°	136.5	4.6
80°-90°	57.4	1.9
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°	1009.9	33.9
0°-40°	1617.6	54.3
0°-60°	2557.9	85.9
0°-90°	2977.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2977.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1311	1306	1302	1302	1305	125
15°	1265	1260	1255	1255	1258	357
25°	1162	1157	1153	1152	1152	534
35°	980	976	974	973	974	612
45°	719	718	718	713	712	554
55°	455	439	435	422	424	407
65°	249	223	197	225	235	250
75°	138	124	106	136	160	148
85°	53	48	49	63	67	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1309.4	1309.4	1309.4	1309.4	1309.4
2.5°	1314.9	1310.0	1305.6	1306.1	1309.4
5°	1310.8	1306.1	1302.0	1301.7	1305.0
7.5°	1303.8	1299.7	1295.0	1295.0	1297.6
10°	1293.8	1289.7	1285.0	1284.7	1287.7
12.5°	1282.1	1276.8	1271.8	1271.8	1275.1
15°	1265.4	1260.4	1255.4	1255.4	1258.4
17.5°	1244.9	1240.5	1236.4	1236.7	1239.0
20°	1221.4	1217.0	1212.6	1213.2	1215.9
22.5°	1194.5	1189.2	1185.7	1185.4	1187.1
25°	1161.6	1156.9	1153.1	1152.3	1152.3
27.5°	1125.0	1120.0	1117.4	1113.3	1114.4
30°	1083.1	1077.8	1073.1	1070.8	1070.5
32.5°	1035.9	1030.6	1026.5	1026.2	1027.4
35°	980.5	976.1	974.3	972.9	974.3
37.5°	925.7	917.5	916.0	915.7	919.5
40°	858.0	855.0	853.0	851.5	856.5
42.5°	792.9	787.0	787.6	782.0	790.8
45°	719.0	717.6	717.9	712.6	712.0
47.5°	645.7	645.5	649.8	635.2	634.3
50°	579.8	576.9	584.2	561.6	555.5
52.5°	516.8	508.6	506.2	485.7	485.7
55°	454.6	439.4	434.7	421.8	424.4
57.5°	395.7	374.0	364.3	364.1	368.5
60°	337.4	312.8	299.3	309.8	314.8
62.5°	291.1	264.1	243.6	263.5	268.2
65°	249.2	223.4	196.7	225.1	234.8
67.5°	213.1	191.7	158.3	195.5	208.4
70°	182.3	163.3	131.0	172.4	189.6
72.5°	158.0	142.2	114.0	153.9	174.7
75°	138.1	123.7	105.8	136.0	160.3
77.5°	122.2	105.2	99.1	119.0	143.9
80°	102.0	86.5	87.3	102.3	123.1
82.5°	78.6	66.8	70.3	84.7	96.7
85°	52.8	47.5	49.2	63.0	67.4
87.5°	26.1	25.2	27.0	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)