

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: P475537

Luminaire Tested: **24GR-LD5-34-F1-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475537
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F1-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ F1 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451.9 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

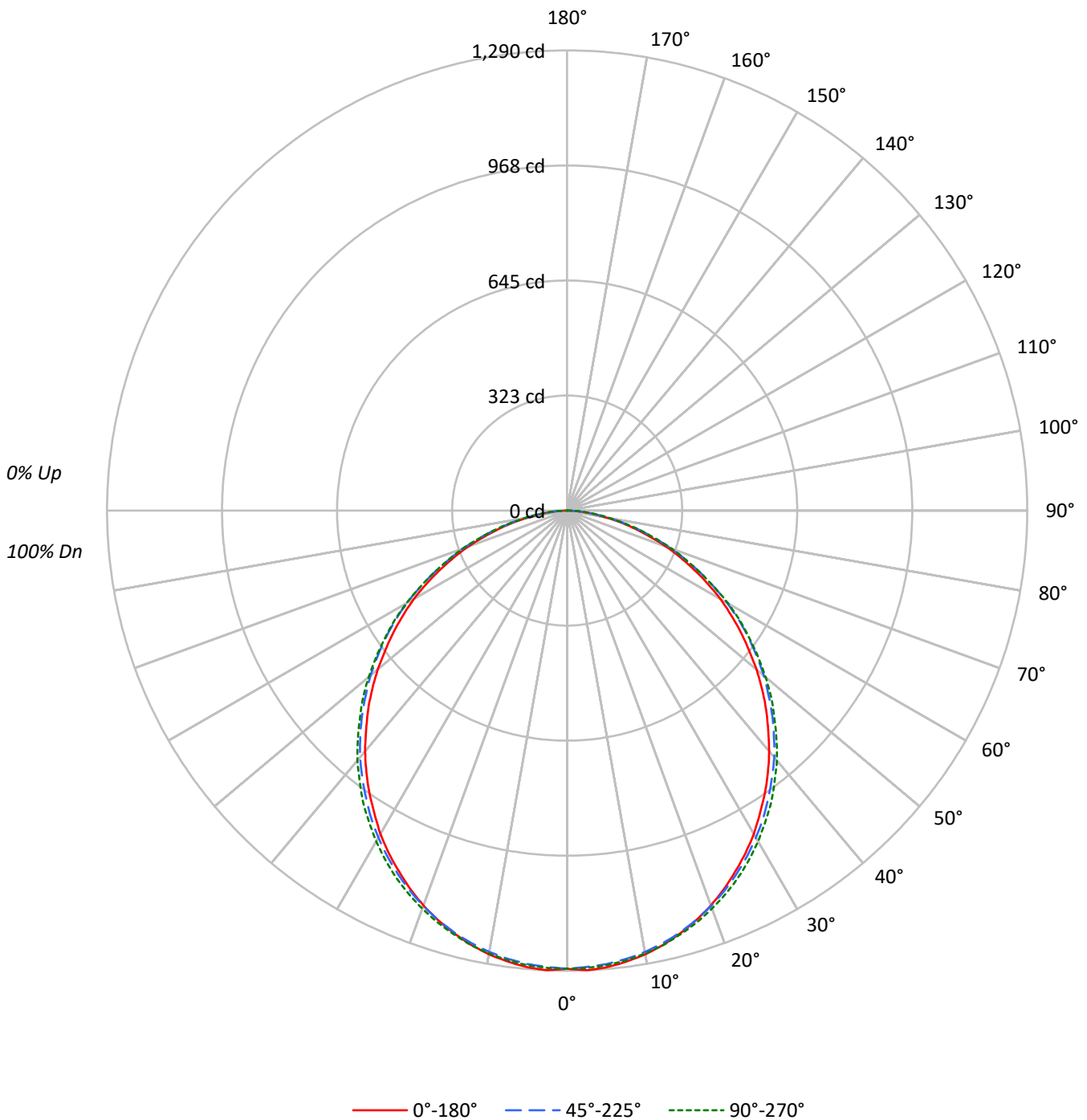
Input Watts (W): 24
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1728	1728	1728
5°	1736	1723	1728
10°	1726	1716	1722
15°	1708	1705	1713
20°	1687	1689	1700
25°	1657	1668	1685
30°	1627	1645	1663
35°	1588	1615	1639
40°	1548	1586	1607
45°	1502	1547	1563
50°	1451	1506	1520
55°	1394	1456	1464
60°	1336	1396	1401
65°	1252	1312	1309
70°	1160	1213	1225
75°	1028	1088	1095
80°	855	918	939
85°	648	710	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	3.5
10°-20°	345.6	10.0
20°-30°	517.8	15.0
30°-40°	614.4	17.8
40°-50°	623.9	18.1
50°-60°	549.5	15.9
60°-70°	403.8	11.7
70°-80°	219.6	6.4
80°-90°	55.9	1.6
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°	984.8	28.5
0°-40°	1599.2	46.3
0°-60°	2772.6	80.3
0°-90°	3451.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3451.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1285	1280	1276	1276	1279	122
15°	1226	1224	1224	1226	1230	346
25°	1116	1118	1124	1130	1135	514
35°	967	972	983	993	998	604
45°	789	796	813	823	822	608
55°	594	603	620	626	624	531
65°	393	400	412	415	411	390
75°	198	202	209	210	211	210
85°	42	43	46	50	52	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.4	1284.4	1284.4	1284.4	1284.4
2.5°	1289.8	1284.7	1280.3	1280.3	1283.4
5°	1285.1	1279.6	1275.9	1275.9	1279.3
7.5°	1275.2	1270.8	1267.8	1267.8	1271.5
10°	1263.1	1258.7	1256.3	1256.6	1260.7
12.5°	1246.8	1242.7	1241.7	1242.4	1247.5
15°	1226.5	1224.1	1224.1	1225.8	1229.5
17.5°	1203.8	1201.4	1203.1	1205.5	1210.2
20°	1178.1	1176.4	1179.4	1183.2	1187.6
22.5°	1148.6	1148.0	1153.0	1158.1	1162.5
25°	1116.1	1117.5	1123.6	1130.0	1135.1
27.5°	1082.6	1084.0	1092.4	1099.2	1104.3
30°	1047.1	1047.8	1058.6	1066.7	1070.4
32.5°	1005.8	1011.2	1022.7	1030.5	1033.9
35°	966.8	972.3	983.1	992.9	998.0
37.5°	924.5	929.3	943.5	954.0	955.7
40°	881.2	885.6	903.2	912.0	914.7
42.5°	833.8	842.3	858.2	867.0	868.7
45°	789.1	795.5	813.2	822.6	821.6
47.5°	741.4	748.5	765.8	774.9	776.6
50°	693.0	701.1	719.7	725.8	726.1
52.5°	642.2	652.7	669.6	677.7	675.0
55°	594.1	602.6	620.5	626.3	623.9
57.5°	544.7	554.2	570.8	573.8	574.1
60°	496.6	504.4	518.6	521.7	520.7
62.5°	443.8	451.6	464.5	467.5	465.1
65°	393.4	399.8	412.0	415.0	411.0
67.5°	343.3	349.7	359.2	363.9	359.5
70°	294.9	299.9	308.4	311.1	311.4
72.5°	243.4	252.5	258.6	258.3	257.3
75°	197.7	201.8	209.2	209.9	210.6
77.5°	154.0	155.0	162.8	164.9	163.5
80°	110.4	114.1	118.5	120.9	121.2
82.5°	72.8	75.5	79.2	83.3	83.3
85°	42.0	43.0	46.0	50.1	51.8
87.5°	16.9	18.6	21.7	24.7	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)