

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P253113

Luminaire Tested: **22RTC-40-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P253113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-679-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RTC-40-UNV-L835-CD1-U
Description: 2X2 RTC
Light Source: -
Ballast/Driver: -

Summary

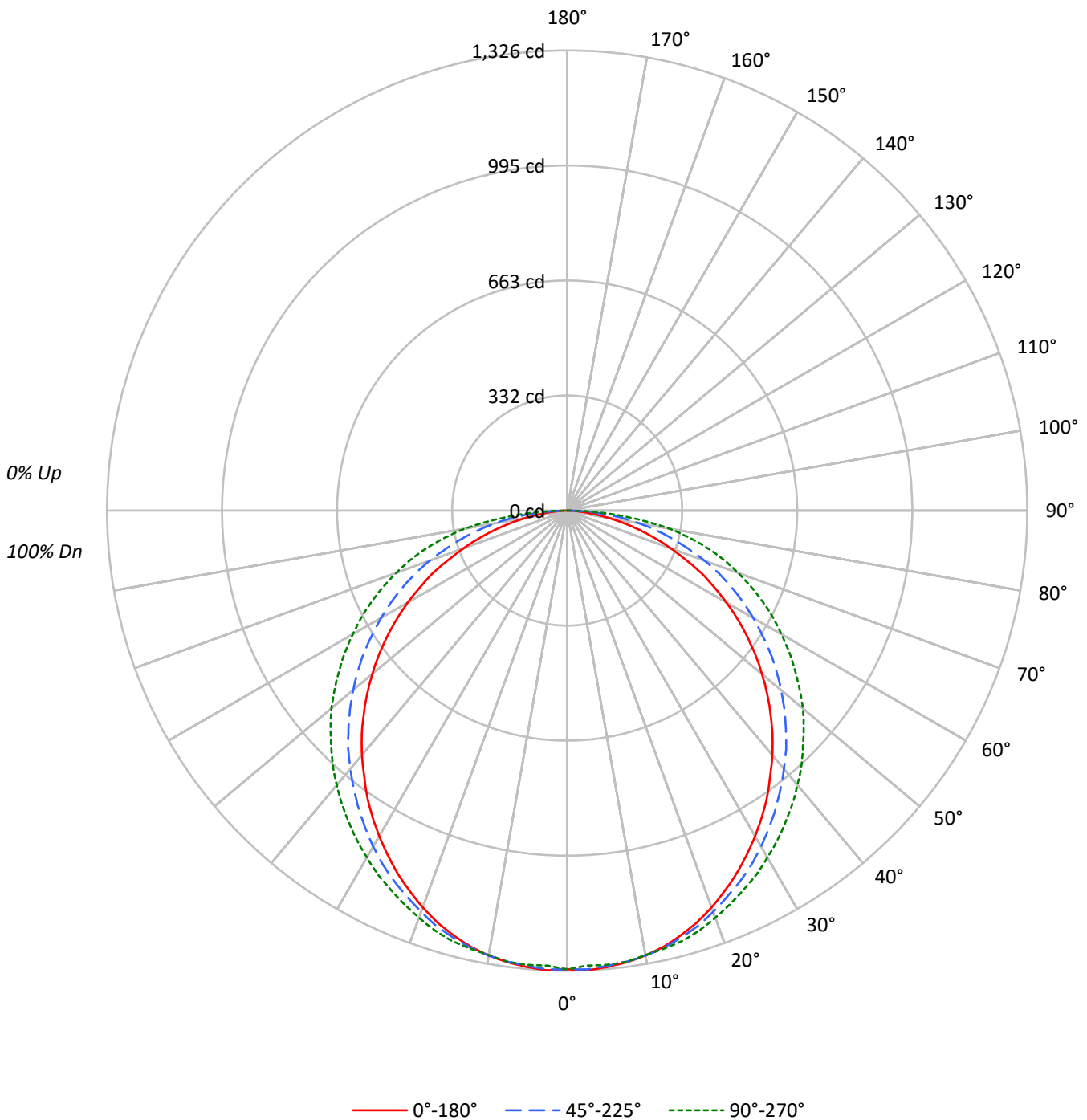
Lumens per Lamp: N/A
Luminaire Lumens: 3972.2 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 31.7
Input Voltage (V): NR
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	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3557	3557	3557
5°	3566	3558	3550
10°	3557	3557	3554
15°	3530	3546	3576
20°	3485	3523	3576
25°	3428	3500	3577
30°	3365	3474	3587
35°	3303	3442	3603
40°	3232	3414	3628
45°	3155	3392	3658
50°	3069	3368	3712
55°	2968	3354	3760
60°	2857	3331	3839
65°	2721	3331	3961
70°	2501	3315	4116
75°	2246	3273	4365
80°	1863	3276	4620
85°	1315	3054	4319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	3.2
10°-20°	359.5	9.0
20°-30°	543.5	13.7
30°-40°	656.6	16.5
40°-50°	689.8	17.4
50°-60°	640.3	16.1
60°-70°	517.2	13.0
70°-80°	333.2	8.4
80°-90°	106.8	2.7
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°	1028.2	25.9
0°-40°	1684.8	42.4
0°-60°	3014.9	75.9
0°-90°	3972.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1320	1320	1317	1314	1314	125
15°	1267	1268	1273	1281	1284	357
25°	1154	1160	1179	1197	1205	532
35°	1005	1016	1048	1081	1097	628
45°	829	846	891	942	961	640
55°	633	656	715	777	802	566
65°	427	455	523	592	622	420
75°	216	248	315	382	420	229
85°	43	64	99	125	140	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
2.5°	1326.3	1326.3	1326.3	1324.7	1326.3	1326.3	1324.7	1324.7	1323.3	1323.3	1323.3
5°	1320.3	1320.3	1318.7	1318.7	1320.3	1320.3	1318.7	1318.7	1317.2	1317.2	1317.2
7.5°	1312.6	1312.6	1312.6	1312.6	1312.6	1312.6	1311.1	1311.1	1311.1	1312.6	1311.1
10°	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1301.9	1300.5	1300.5	1301.9	1301.9
12.5°	1286.8	1288.3	1286.8	1286.8	1288.3	1288.3	1286.8	1286.8	1286.8	1289.8	1289.8
15°	1267.0	1267.0	1267.0	1267.0	1268.5	1268.5	1268.5	1270.0	1270.0	1273.0	1273.0
17.5°	1244.2	1244.2	1244.2	1244.2	1245.7	1247.2	1247.2	1248.8	1250.2	1253.3	1254.8
20°	1216.8	1218.3	1216.8	1218.3	1219.9	1221.3	1221.3	1222.9	1225.9	1229.0	1230.4
22.5°	1186.4	1187.8	1187.8	1189.4	1190.9	1192.5	1192.5	1195.5	1198.5	1201.6	1204.6
25°	1154.5	1155.9	1155.9	1157.5	1159.0	1160.5	1162.0	1165.0	1169.6	1174.2	1178.7
27.5°	1119.4	1121.0	1121.0	1124.0	1125.6	1127.0	1130.1	1133.1	1139.2	1143.8	1149.9
30°	1083.0	1084.4	1084.4	1086.0	1089.0	1092.1	1095.1	1099.7	1104.2	1110.3	1117.9
32.5°	1044.9	1046.4	1046.4	1047.9	1052.5	1055.5	1057.1	1063.2	1069.3	1075.3	1083.0
35°	1005.4	1005.4	1005.4	1009.9	1012.9	1016.0	1017.6	1025.2	1032.7	1040.4	1047.9
37.5°	961.2	962.8	962.8	968.9	973.4	976.4	979.6	985.6	994.7	1002.4	1009.9
40°	920.2	920.2	920.2	924.7	930.9	933.9	938.4	944.5	955.2	962.8	971.9
42.5°	876.0	877.6	877.6	882.2	888.3	891.3	895.8	903.5	914.1	923.3	933.9
45°	829.0	830.4	830.4	836.6	842.7	845.7	851.8	859.4	870.0	880.7	891.3
47.5°	781.7	781.7	784.8	792.4	797.0	801.5	804.6	815.2	825.9	838.1	848.7
50°	733.1	733.1	737.7	742.3	749.8	754.4	758.9	769.6	781.7	792.4	804.6
52.5°	684.4	684.4	687.4	695.1	701.2	705.8	710.3	722.5	734.6	746.8	760.5
55°	632.7	635.7	638.8	643.4	651.0	655.5	661.6	673.8	687.4	699.7	714.9
57.5°	582.6	584.0	587.1	596.3	600.8	605.4	611.5	623.6	637.3	652.5	666.2
60°	530.9	530.9	535.4	541.4	550.6	555.1	562.8	574.9	588.6	603.8	619.0
62.5°	477.6	479.2	485.2	494.3	498.8	506.5	512.5	524.8	540.0	553.7	571.9
65°	427.3	427.3	432.0	442.6	447.1	454.8	460.8	474.6	489.7	505.0	523.2
67.5°	369.6	372.6	377.2	387.9	397.0	403.1	409.1	424.3	439.6	454.8	473.0
70°	317.9	320.9	325.5	333.0	342.3	348.3	354.4	368.1	384.9	403.1	421.3
72.5°	267.7	269.2	273.8	281.3	290.6	298.1	304.2	317.9	333.0	348.3	366.5
75°	216.0	219.1	223.6	231.2	240.3	248.0	252.5	266.2	281.3	296.6	314.8
77.5°	167.4	170.4	174.9	182.5	191.6	196.3	202.3	216.0	231.2	246.4	263.1
80°	120.2	123.2	127.8	135.3	144.5	149.0	155.1	167.4	181.0	194.7	211.4
82.5°	77.6	79.1	85.2	91.3	100.4	105.0	109.5	121.7	133.9	146.0	158.1
85°	42.6	42.6	45.6	51.7	59.3	63.8	66.9	74.5	83.6	91.3	98.9
87.5°	15.2	15.2	16.7	19.8	22.8	24.4	25.9	28.9	33.5	38.0	42.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7	1321.7
2.5°	1321.7	1320.3	1318.7	1317.2	1315.6	1315.6	1314.2	1312.6	1312.6	1312.6
5°	1317.2	1315.6	1315.6	1314.2	1314.2	1314.2	1314.2	1312.6	1312.6	1314.2
7.5°	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1	1311.1
10°	1301.9	1301.9	1301.9	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5	1300.5
12.5°	1289.8	1289.8	1289.8	1291.4	1291.4	1291.4	1291.4	1292.8	1292.8	1292.8
15°	1276.1	1277.7	1277.7	1279.1	1280.7	1280.7	1282.1	1282.1	1283.7	1283.7
17.5°	1257.9	1259.3	1262.4	1263.9	1263.9	1265.5	1267.0	1268.5	1268.5	1268.5
20°	1235.1	1238.1	1239.7	1242.7	1242.7	1244.2	1245.7	1247.2	1248.8	1248.8
22.5°	1209.2	1212.2	1216.8	1219.9	1219.9	1221.3	1224.4	1225.9	1227.4	1227.4
25°	1183.3	1187.8	1190.9	1195.5	1197.1	1198.5	1201.6	1203.1	1204.6	1204.6
27.5°	1155.9	1159.0	1165.0	1169.6	1171.2	1172.7	1177.3	1180.3	1180.3	1181.8
30°	1124.0	1130.1	1136.1	1140.7	1142.2	1145.4	1149.9	1152.9	1154.5	1154.5
32.5°	1090.5	1096.7	1104.2	1110.3	1113.3	1114.9	1121.0	1124.0	1125.6	1127.0
35°	1055.5	1063.2	1072.3	1078.4	1081.4	1084.4	1090.5	1093.5	1096.7	1096.7
37.5°	1020.6	1029.7	1037.3	1046.4	1049.5	1052.5	1058.6	1061.6	1064.7	1066.2
40°	984.1	993.2	1002.4	1011.5	1014.5	1019.0	1023.6	1028.2	1031.3	1032.7
42.5°	946.1	955.2	965.9	975.0	981.0	984.1	990.1	994.7	997.8	999.2
45°	904.9	915.6	926.3	937.0	941.5	944.5	952.1	958.2	961.2	961.2
47.5°	862.4	874.6	886.7	897.4	903.5	906.5	914.1	918.6	923.3	924.7
50°	819.8	833.4	845.7	856.3	862.4	866.9	874.6	879.1	883.7	886.7
52.5°	774.2	789.4	801.5	813.8	819.8	824.3	833.4	839.6	842.7	844.1
55°	730.0	745.3	758.9	771.2	777.2	780.3	791.0	797.0	800.1	801.5
57.5°	682.9	698.1	711.8	724.0	731.6	737.7	745.3	752.9	755.9	758.9
60°	635.7	651.0	666.2	679.9	686.0	690.5	701.2	707.2	711.8	713.3
62.5°	587.1	605.4	619.0	632.7	640.3	645.0	654.1	661.6	667.8	669.2
65°	538.4	555.1	570.3	585.6	591.7	597.7	606.8	616.0	620.6	622.1
67.5°	489.7	506.5	521.6	535.4	543.0	549.1	559.8	567.3	573.5	573.5
70°	438.0	454.8	471.5	485.2	492.8	498.8	509.5	517.2	523.2	523.2
72.5°	381.8	403.1	418.2	433.5	439.6	447.1	456.3	465.4	471.5	474.6
75°	330.0	346.8	362.0	377.2	381.8	392.4	403.1	412.2	418.2	419.8
77.5°	276.8	293.6	308.8	322.5	328.5	334.6	346.8	352.8	359.0	360.5
80°	225.1	240.3	255.5	266.2	270.8	276.8	284.4	290.6	295.0	298.1
82.5°	167.4	177.9	187.0	194.7	197.7	202.3	209.9	212.9	216.0	219.1
85°	103.4	111.1	117.1	123.2	124.8	129.3	133.9	135.3	138.4	139.9
87.5°	44.1	50.2	53.3	54.7	56.3	59.3	63.8	63.8	66.9	65.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)