

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: P253112

Luminaire Tested: **22RTC-24-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P253112
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-24-UNV-L835-CD1-U
Description: 2X2 RTC
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612.0 lumens
Efficiency: N/A
Efficacy: 132.6 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

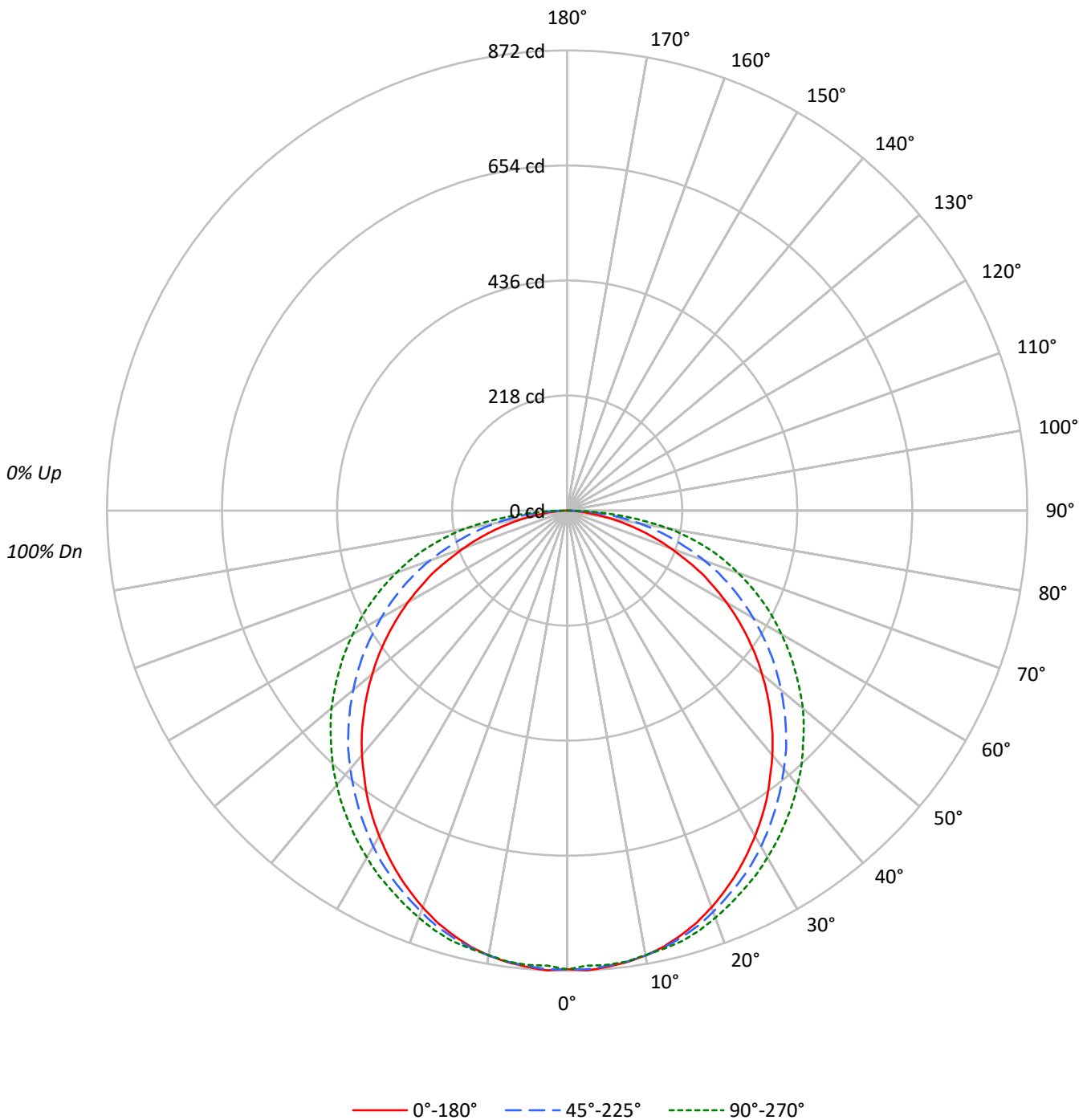
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2339	2339	2339
5°	2345	2340	2334
10°	2339	2339	2337
15°	2321	2332	2352
20°	2291	2317	2351
25°	2254	2301	2352
30°	2213	2284	2359
35°	2172	2264	2369
40°	2126	2245	2386
45°	2074	2230	2406
50°	2018	2215	2441
55°	1952	2206	2473
60°	1879	2191	2525
65°	1789	2191	2605
70°	1644	2179	2707
75°	1476	2152	2870
80°	1224	2154	3037
85°	865	2007	2841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	3.2
10°-20°	236.4	9.0
20°-30°	357.4	13.7
30°-40°	431.7	16.5
40°-50°	453.6	17.4
50°-60°	421.1	16.1
60°-70°	340.1	13.0
70°-80°	219.1	8.4
80°-90°	70.2	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°	676.1	25.9
0°-40°	1107.8	42.4
0°-60°	1982.6	75.9
0°-90°	2612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	868	868	866	864	864	82
15°	833	834	837	842	844	235
25°	759	763	775	787	792	350
35°	661	668	689	711	721	413
45°	545	556	586	619	632	421
55°	416	431	470	511	527	372
65°	281	299	344	389	409	276
75°	142	163	207	251	276	151
85°	28	42	65	82	92	35
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°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	872.1	872.1	872.1	871.1	872.1	872.1	871.1	871.1	870.1	870.1	870.1
5°	868.1	868.1	867.1	867.1	868.1	868.1	867.1	867.1	866.1	866.1	866.1
7.5°	863.1	863.1	863.1	863.1	863.1	863.1	862.1	862.1	862.1	863.1	862.1
10°	856.1	856.1	856.1	856.1	856.1	856.1	856.1	855.1	855.1	856.1	856.1
12.5°	846.1	847.1	846.1	846.1	847.1	847.1	846.1	846.1	846.1	848.1	848.1
15°	833.1	833.1	833.1	833.1	834.1	834.1	834.1	835.1	835.1	837.1	837.1
17.5°	818.1	818.1	818.1	818.1	819.1	820.1	820.1	821.1	822.1	824.1	825.1
20°	800.1	801.1	800.1	801.1	802.1	803.1	803.1	804.1	806.1	808.1	809.1
22.5°	780.1	781.1	781.1	782.1	783.1	784.1	784.1	786.1	788.1	790.1	792.1
25°	759.1	760.1	760.1	761.1	762.1	763.1	764.1	766.1	769.1	772.1	775.1
27.5°	736.1	737.1	737.1	739.1	740.1	741.1	743.1	745.1	749.1	752.1	756.1
30°	712.1	713.1	713.1	714.1	716.1	718.1	720.1	723.1	726.1	730.1	735.1
32.5°	687.1	688.1	688.1	689.1	692.1	694.1	695.1	699.1	703.1	707.1	712.1
35°	661.1	661.1	661.1	664.1	666.1	668.1	669.1	674.1	679.1	684.1	689.1
37.5°	632.1	633.1	633.1	637.1	640.1	642.1	644.1	648.1	654.1	659.1	664.1
40°	605.1	605.1	605.1	608.1	612.1	614.1	617.1	621.1	628.1	633.1	639.1
42.5°	576.1	577.1	577.1	580.1	584.1	586.1	589.1	594.1	601.1	607.1	614.1
45°	545.1	546.1	546.1	550.1	554.1	556.1	560.1	565.1	572.1	579.1	586.1
47.5°	514.1	514.1	516.1	521.1	524.1	527.1	529.1	536.1	543.1	551.1	558.1
50°	482.1	482.1	485.1	488.1	493.1	496.1	499.1	506.1	514.1	521.1	529.1
52.5°	450.1	450.1	452.1	457.1	461.1	464.1	467.1	475.1	483.1	491.1	500.1
55°	416.1	418.1	420.1	423.1	428.1	431.1	435.1	443.1	452.1	460.1	470.1
57.5°	383.1	384.1	386.1	392.1	395.1	398.1	402.1	410.1	419.1	429.1	438.1
60°	349.1	349.1	352.1	356.1	362.1	365.1	370.1	378.1	387.1	397.1	407.1
62.5°	314.0	315.0	319.0	325.0	328.0	333.1	337.1	345.1	355.1	364.1	376.1
65°	281.0	281.0	284.0	291.0	294.0	299.0	303.0	312.0	322.0	332.1	344.1
67.5°	243.0	245.0	248.0	255.0	261.0	265.0	269.0	279.0	289.0	299.0	311.0
70°	209.0	211.0	214.0	219.0	225.0	229.0	233.0	242.0	253.0	265.0	277.0
72.5°	176.0	177.0	180.0	185.0	191.0	196.0	200.0	209.0	219.0	229.0	241.0
75°	142.0	144.0	147.0	152.0	158.0	163.0	166.0	175.0	185.0	195.0	207.0
77.5°	110.0	112.0	115.0	120.0	126.0	129.0	133.0	142.0	152.0	162.0	173.0
80°	79.0	81.0	84.0	89.0	95.0	98.0	102.0	110.0	119.0	128.0	139.0
82.5°	51.0	52.0	56.0	60.0	66.0	69.0	72.0	80.0	88.0	96.0	104.0
85°	28.0	28.0	30.0	34.0	39.0	42.0	44.0	49.0	55.0	60.0	65.0
87.5°	10.0	10.0	11.0	13.0	15.0	16.0	17.0	19.0	22.0	25.0	28.0
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°	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1	869.1
2.5°	869.1	868.1	867.1	866.1	865.1	865.1	864.1	863.1	863.1	863.1
5°	866.1	865.1	865.1	864.1	864.1	864.1	864.1	863.1	863.1	864.1
7.5°	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1	862.1
10°	856.1	856.1	856.1	855.1	855.1	855.1	855.1	855.1	855.1	855.1
12.5°	848.1	848.1	848.1	849.1	849.1	849.1	849.1	850.1	850.1	850.1
15°	839.1	840.1	840.1	841.1	842.1	842.1	843.1	843.1	844.1	844.1
17.5°	827.1	828.1	830.1	831.1	831.1	832.1	833.1	834.1	834.1	834.1
20°	812.1	814.1	815.1	817.1	817.1	818.1	819.1	820.1	821.1	821.1
22.5°	795.1	797.1	800.1	802.1	802.1	803.1	805.1	806.1	807.1	807.1
25°	778.1	781.1	783.1	786.1	787.1	788.1	790.1	791.1	792.1	792.1
27.5°	760.1	762.1	766.1	769.1	770.1	771.1	774.1	776.1	776.1	777.1
30°	739.1	743.1	747.1	750.1	751.1	753.1	756.1	758.1	759.1	759.1
32.5°	717.1	721.1	726.1	730.1	732.1	733.1	737.1	739.1	740.1	741.1
35°	694.1	699.1	705.1	709.1	711.1	713.1	717.1	719.1	721.1	721.1
37.5°	671.1	677.1	682.1	688.1	690.1	692.1	696.1	698.1	700.1	701.1
40°	647.1	653.1	659.1	665.1	667.1	670.1	673.1	676.1	678.1	679.1
42.5°	622.1	628.1	635.1	641.1	645.1	647.1	651.1	654.1	656.1	657.1
45°	595.1	602.1	609.1	616.1	619.1	621.1	626.1	630.1	632.1	632.1
47.5°	567.1	575.1	583.1	590.1	594.1	596.1	601.1	604.1	607.1	608.1
50°	539.1	548.1	556.1	563.1	567.1	570.1	575.1	578.1	581.1	583.1
52.5°	509.1	519.1	527.1	535.1	539.1	542.1	548.1	552.1	554.1	555.1
55°	480.1	490.1	499.1	507.1	511.1	513.1	520.1	524.1	526.1	527.1
57.5°	449.1	459.1	468.1	476.1	481.1	485.1	490.1	495.1	497.1	499.1
60°	418.1	428.1	438.1	447.1	451.1	454.1	461.1	465.1	468.1	469.1
62.5°	386.1	398.1	407.1	416.1	421.1	424.1	430.1	435.1	439.1	440.1
65°	354.1	365.1	375.1	385.1	389.1	393.1	399.1	405.1	408.1	409.1
67.5°	322.0	333.1	343.1	352.1	357.1	361.1	368.1	373.1	377.1	377.1
70°	288.0	299.0	310.0	319.0	324.0	328.0	335.1	340.1	344.1	344.1
72.5°	251.0	265.0	275.0	285.0	289.0	294.0	300.0	306.0	310.0	312.0
75°	217.0	228.0	238.0	248.0	251.0	258.0	265.0	271.0	275.0	276.0
77.5°	182.0	193.0	203.0	212.0	216.0	220.0	228.0	232.0	236.0	237.0
80°	148.0	158.0	168.0	175.0	178.0	182.0	187.0	191.0	194.0	196.0
82.5°	110.0	117.0	123.0	128.0	130.0	133.0	138.0	140.0	142.0	144.0
85°	68.0	73.0	77.0	81.0	82.0	85.0	88.0	89.0	91.0	92.0
87.5°	29.0	33.0	35.0	36.0	37.0	39.0	42.0	42.0	44.0	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)