

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: P253110

Luminaire Tested: **14RTC-24-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P253110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1803-679-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RTC-24-UNV-L840-CD1-U
Description: 1X4 RTC
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2627.0 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.41
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

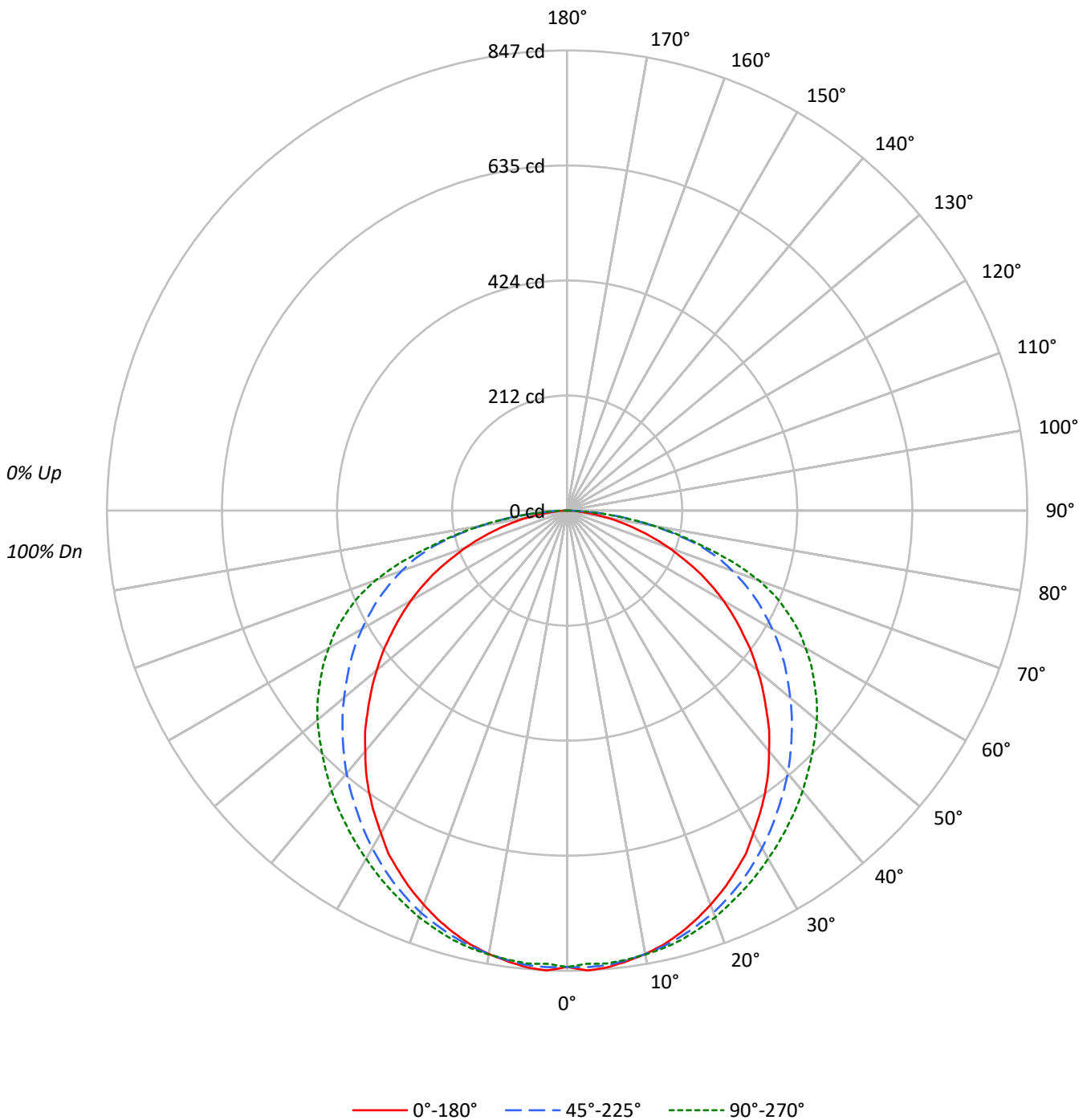
Input Watts (W): 19.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253110

CATALOG NUMBER: 14RTC-24-UNV-L840-CD1-U

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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	89	81	75	95	87	80	74	83	77	73	80	75	71	77	73	69	67					67			
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56					56			
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	60	54	49	47					47			
5	74	61	51	44	72	59	51	44	57	49	44	55	48	43	53	47	43	40					40			
6	68	54	45	38	66	53	45	38	52	44	38	50	43	38	48	42	37	35					35			
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31					31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27					27			
9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	25					25			
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	34	28	24	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2260	2260	2260
5°	2280	2269	2261
10°	2264	2264	2267
15°	2243	2260	2277
20°	2211	2255	2281
25°	2176	2243	2286
30°	2130	2229	2300
35°	2086	2218	2326
40°	2031	2219	2368
45°	1973	2224	2424
50°	1916	2244	2511
55°	1852	2287	2607
60°	1792	2347	2729
65°	1700	2435	2862
70°	1557	2546	2952
75°	1383	2658	2754
80°	1134	2476	2524
85°	797	2004	1908



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CATALOG NUMBER: 14RTC-24-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	3.0
10°-20°	228.2	8.7
20°-30°	345.9	13.2
30°-40°	420.1	16.0
40°-50°	448.1	17.1
50°-60°	430.6	16.4
60°-70°	366.3	13.9
70°-80°	239.9	9.1
80°-90°	68.3	2.6
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°	653.7	24.9
0°-40°	1073.8	40.9
0°-60°	1952.5	74.3
0°-90°	2627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2627.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	844	836	840	837	837	80
15°	805	800	811	814	817	227
25°	733	734	756	764	770	338
35°	635	642	675	696	708	397
45°	518	537	584	620	637	401
55°	395	426	488	535	556	354
65°	267	311	382	432	449	263
75°	133	192	256	266	265	141
85°	26	64	65	62	62	33
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°	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0
2.5°	847.3	846.2	843.1	840.0	839.0	838.0	838.0	836.9	836.9	838.0	841.1
5°	844.2	843.1	840.0	838.0	835.9	835.9	835.9	834.9	834.9	835.9	840.0
7.5°	836.9	836.9	833.9	831.8	829.7	829.7	829.7	828.7	828.7	830.8	834.9
10°	828.7	828.7	825.6	823.5	822.5	822.5	822.5	821.5	822.5	823.5	828.7
12.5°	818.4	818.4	815.3	813.2	813.2	813.2	812.2	812.2	813.2	815.3	821.5
15°	805.0	804.0	802.9	800.9	799.8	799.8	800.9	800.9	801.9	806.0	811.2
17.5°	789.5	789.5	788.5	786.4	786.4	786.4	786.4	787.5	789.5	793.7	799.8
20°	772.0	773.0	772.0	769.9	771.0	771.0	772.0	773.0	775.1	780.3	787.5
22.5°	753.5	754.5	752.4	751.4	752.4	753.5	753.5	755.5	758.6	764.8	772.0
25°	732.8	733.9	732.8	731.8	732.8	733.9	734.9	735.9	741.1	747.3	755.5
27.5°	712.2	711.2	710.2	710.2	712.2	713.3	714.3	717.4	721.5	729.7	737.0
30°	685.4	686.5	686.5	686.5	688.5	690.6	692.6	694.7	700.9	709.1	717.4
32.5°	660.7	660.7	661.7	662.8	665.8	666.9	668.9	673.1	680.3	688.5	696.8
35°	634.9	634.9	636.0	637.0	640.1	642.1	644.2	650.4	657.6	666.9	675.1
37.5°	608.1	609.2	609.2	612.2	615.3	617.4	619.5	626.7	634.9	645.2	653.5
40°	578.2	579.3	581.3	584.4	588.5	591.6	594.7	603.0	611.2	622.6	631.8
42.5°	550.4	550.4	553.5	556.6	561.7	563.8	567.9	578.2	587.5	597.8	608.1
45°	518.5	521.5	523.6	528.8	533.9	537.0	542.2	552.5	562.8	574.1	584.4
47.5°	488.6	491.7	494.7	498.9	506.1	510.2	514.3	526.7	537.0	550.4	560.7
50°	457.6	460.7	464.9	470.0	477.2	482.4	487.5	500.9	511.2	524.6	536.0
52.5°	427.7	428.8	433.9	440.1	448.4	454.5	459.7	474.1	486.5	499.9	511.2
55°	394.8	397.9	403.0	410.2	419.5	425.7	431.9	446.3	458.7	473.1	487.5
57.5°	363.8	365.9	372.1	379.3	389.6	396.8	404.0	419.5	432.9	448.4	462.8
60°	332.9	334.0	341.2	349.4	360.8	370.0	376.2	392.7	406.1	421.6	436.0
62.5°	299.9	302.0	309.2	319.5	332.9	341.2	347.4	363.8	379.3	394.8	409.2
65°	267.0	269.0	277.3	289.6	303.0	311.3	319.5	337.0	351.5	366.9	382.4
67.5°	230.9	234.0	243.2	256.6	273.1	281.4	289.6	307.2	322.6	338.1	353.5
70°	197.9	202.0	211.3	225.7	242.2	250.5	259.7	278.3	294.8	309.2	323.6
72.5°	164.9	169.0	180.4	195.8	212.3	221.6	229.9	246.3	263.9	278.3	292.7
75°	133.0	137.1	149.5	165.9	183.5	191.7	201.0	217.5	231.9	244.3	255.6
77.5°	103.1	107.2	120.6	137.1	154.6	163.9	171.1	186.6	200.0	205.1	208.2
80°	73.2	77.3	91.7	109.3	125.7	135.0	142.2	151.5	156.7	157.7	159.8
82.5°	47.4	52.6	67.0	83.5	97.9	103.1	104.1	108.2	112.3	111.3	112.3
85°	25.8	30.9	43.3	55.7	60.8	63.9	63.9	64.9	67.0	64.9	64.9
87.5°	10.3	13.4	19.6	22.7	23.7	24.7	24.7	23.7	23.7	21.6	21.6
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°	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0	840.0
2.5°	844.2	842.1	841.1	840.0	839.0	838.0	836.9	835.9	834.9	834.9
5°	842.1	840.0	839.0	838.0	836.9	835.9	835.9	836.9	836.9	836.9
7.5°	838.0	834.9	834.9	833.9	833.9	832.8	832.8	833.9	833.9	833.9
10°	831.8	829.7	829.7	828.7	828.7	827.7	827.7	828.7	828.7	829.7
12.5°	824.6	822.5	822.5	822.5	822.5	821.5	822.5	823.5	823.5	824.6
15°	814.3	813.2	814.3	814.3	814.3	814.3	814.3	816.3	816.3	817.4
17.5°	804.0	802.9	804.0	805.0	805.0	805.0	805.0	806.0	807.1	807.1
20°	789.5	789.5	790.6	791.6	792.6	791.6	792.6	794.7	795.7	796.7
22.5°	774.1	774.1	776.1	777.2	777.2	778.2	779.2	781.3	783.3	783.3
25°	757.6	758.6	761.7	762.7	763.8	763.8	765.8	767.9	769.9	769.9
27.5°	740.1	743.1	745.2	747.3	748.3	749.3	750.4	753.5	755.5	755.5
30°	721.5	723.6	727.7	730.8	730.8	731.8	733.9	738.0	740.1	740.1
32.5°	700.9	705.0	709.1	712.2	713.3	715.3	718.4	722.5	723.6	724.6
35°	680.3	684.4	689.6	693.7	695.7	697.8	700.9	705.0	707.1	708.1
37.5°	659.7	664.8	671.0	675.1	677.2	680.3	683.4	688.5	690.6	691.6
40°	638.0	644.2	650.4	655.5	658.6	660.7	664.8	671.0	673.1	674.1
42.5°	615.3	623.6	630.8	637.0	639.0	642.1	647.3	652.4	654.5	655.5
45°	592.7	601.9	609.2	616.4	619.5	622.6	628.7	633.9	637.0	637.0
47.5°	570.0	580.3	588.5	595.8	599.9	603.0	609.2	615.3	617.4	618.4
50°	547.3	557.6	567.9	575.1	579.3	583.4	589.6	595.8	597.8	599.9
52.5°	523.6	534.9	545.3	553.5	557.6	561.7	569.0	575.1	578.2	579.3
55°	499.9	511.2	521.5	530.8	534.9	540.1	547.3	553.5	555.6	555.6
57.5°	475.2	487.5	497.8	507.1	512.3	516.4	523.6	529.8	531.9	532.9
60°	450.4	462.8	473.1	482.4	486.5	491.7	497.8	504.0	507.1	507.1
62.5°	423.6	436.0	446.3	456.6	459.7	464.9	472.1	476.2	479.3	481.3
65°	395.8	408.2	418.5	427.7	431.9	436.0	443.2	448.4	449.4	449.4
67.5°	366.9	377.2	387.6	396.8	401.0	405.1	411.3	415.4	416.4	416.4
70°	336.0	346.3	355.6	363.8	366.9	371.1	374.2	376.2	377.2	375.2
72.5°	304.1	311.3	318.5	320.6	320.6	320.6	321.6	321.6	321.6	324.7
75°	259.7	262.8	265.9	265.9	265.9	265.9	268.0	267.0	268.0	264.9
77.5°	209.2	210.3	214.4	213.4	213.4	213.4	214.4	213.4	213.4	213.4
80°	161.8	160.8	163.9	162.9	160.8	160.8	162.9	160.8	160.8	162.9
82.5°	113.4	113.4	113.4	111.3	111.3	109.3	111.3	109.3	110.3	111.3
85°	66.0	62.9	64.9	61.8	61.8	60.8	61.8	59.8	59.8	61.8
87.5°	19.6	17.5	19.6	18.6	16.5	16.5	16.5	15.5	15.5	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)