

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: 215P101

Luminaire Tested: **WE-225A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 215P101
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: WE-225A
Description: 4 FT. Economy Wrap Luminaire with an acrylic prismatic lens
Light Source: Two - F48"/25W/UTSL - 1850 Lumens ea. - 25 Watts ea.
Ballast/Driver: Advance HB-234-TP Magnetic

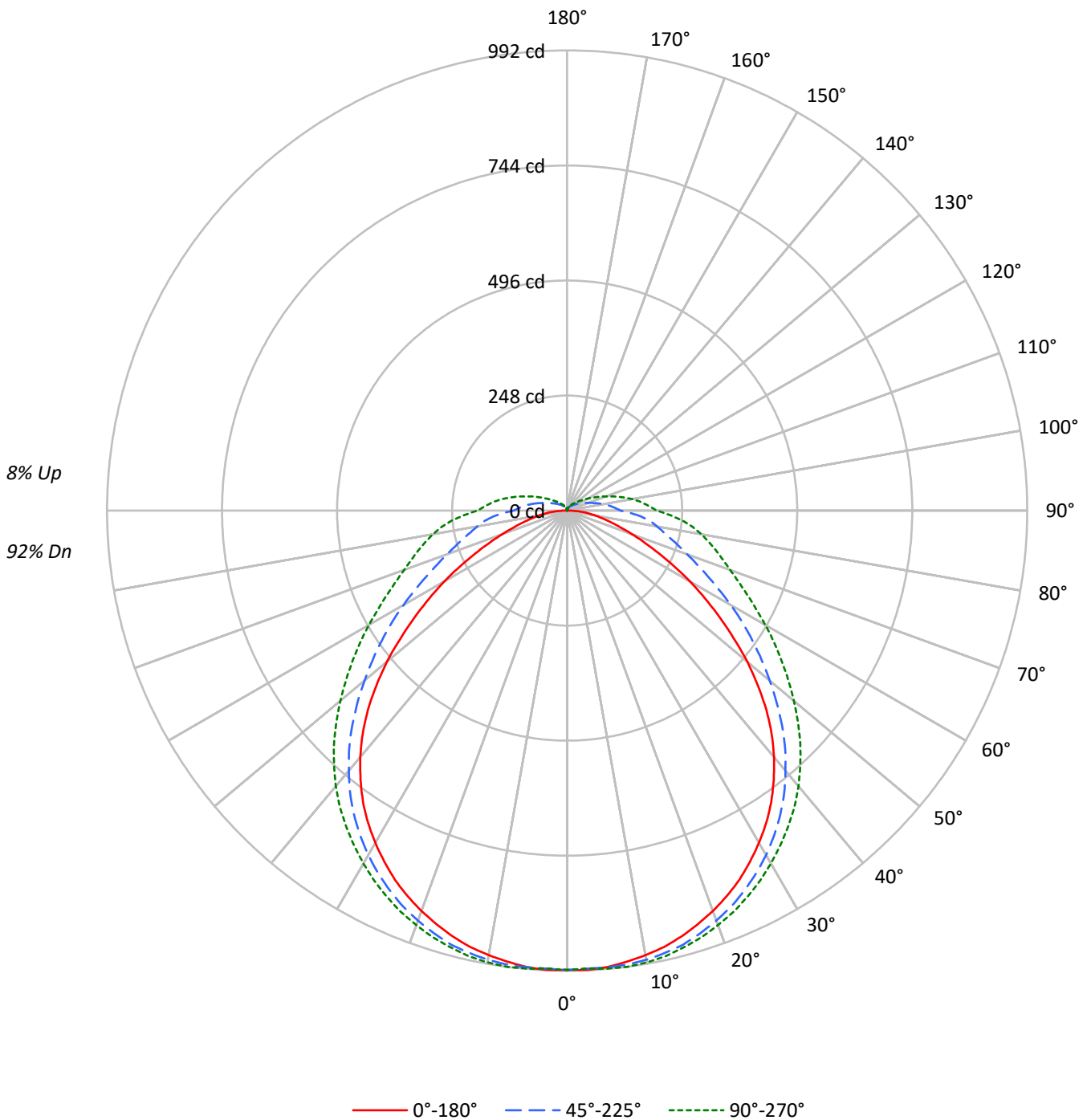
Summary

Lumens per Lamp: 1850 (2 lamps)
Luminaire Lumens: 3198.8 lumens
Efficiency: 86.5%
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.31 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.6' x L: 3.92' x H: 0.1')
CIE Type: Direct

Input Watts (W): 49
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	50	30	10	0	
RCR																						
0	101	101	101	101	98	98	98	98	92	92	92	87	87	87	82	82	82	80				
1	91	87	83	79	88	84	80	77	79	76	73	75	72	70	71	69	67	64				
2	83	75	69	64	80	73	67	63	69	64	60	65	61	58	62	58	56	53				
3	76	66	59	53	73	64	58	52	61	55	50	57	53	49	54	50	47	45				
4	69	59	51	45	67	57	50	44	54	48	43	51	46	42	49	44	40	38				
5	64	52	44	39	61	51	44	38	48	42	37	46	40	36	44	39	35	33				
6	59	47	39	34	57	46	39	33	44	37	33	42	36	32	40	35	31	29				
7	54	43	35	30	53	42	35	29	40	33	29	38	32	28	36	31	27	26				
8	51	39	32	27	49	38	31	26	36	30	26	35	29	25	33	28	25	23				
9	47	36	29	24	46	35	28	24	33	27	23	32	27	23	31	26	22	21				
10	44	33	26	22	43	32	26	21	31	25	21	30	24	21	29	24	20	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4504	4504	4504
5°	4500	4457	4458
10°	4473	4432	4433
15°	4446	4394	4386
20°	4402	4331	4331
25°	4355	4257	4268
30°	4278	4165	4196
35°	4182	4048	4117
40°	4029	3888	4025
45°	3804	3695	3900
50°	3477	3456	3744
55°	3065	3218	3593
60°	2653	2979	3454
65°	2219	2762	3360
70°	1845	2641	3373
75°	1554	2653	3551
80°	1400	2867	3889
85°	1281	3263	4386



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	94.3	2.9	2.5	0°	990	990	990	990	990	
10°-20°	272.9	8.5	7.4	5°	988	987	988	995	991	94
20°-30°	416.5	13.0	11.3	15°	951	959	968	979	974	268
30°-40°	501.7	15.7	13.6	25°	878	894	904	921	919	404
40°-50°	507.6	15.9	13.7	35°	767	785	801	827	831	479
50°-60°	435.8	13.6	11.8	45°	607	624	655	700	711	466
60°-70°	327.2	10.2	8.8	55°	401	430	487	547	565	360
70°-80°	236.8	7.4	6.4	65°	218	250	334	402	428	219
80°-90°	162.9	5.1	4.4	75°	97	136	230	308	332	106
90°-100°	98.6	3.1	2.7	85°	32	73	163	231	250	32
100°-110°	64.2	2.0	1.7	90°	1	36	115	175	193	2
110°-120°	37.0	1.2	1.0	95°	0	30	97	150	168	0
120°-130°	20.8	0.7	0.6	105°	0	21	62	100	115	0
130°-140°	11.8	0.4	0.3	115°	1	15	38	59	68	1
140°-150°	6.5	0.2	0.2	125°	1	12	25	35	39	1
150°-160°	3.3	0.1	0.1	135°	2	9	17	22	24	1
160°-170°	1.0	0.0	0.0	145°	2	7	12	14	15	1
170°-180°	0.0	0.0	0.0	155°	2	5	7	9	10	1
0°-30°	783.8	24.5	21.2	165°	3	4	5	5	5	1
0°-40°	1285.4	40.2	34.7	175°	0	0	0	0	0	0
0°-60°	2228.8	69.7	60.2	180°	0	0	0	0	0	
0°-90°	2955.7	92.4	79.9							
90°-120°	199.8	6.2	5.4							
90°-150°	238.9	7.5	6.5							
90°-180°	243.0	7.6	6.6							
0°-180°	3198.8	100.0	86.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.3	990.3	990.3	990.3	990.3
2.5°	991.4	989.2	988.6	993.5	987.8
5°	987.9	986.7	988.1	994.7	991.1
7.5°	981.0	982.6	987.2	995.1	991.9
10°	973.1	977.8	983.3	993.4	988.9
12.5°	963.7	969.2	976.6	987.3	983.6
15°	950.8	958.6	968.4	978.7	974.4
17.5°	935.4	946.0	955.2	967.6	964.3
20°	918.3	930.1	940.6	955.2	950.9
22.5°	899.4	913.0	924.1	939.1	936.5
25°	878.5	893.6	903.9	920.8	918.9
27.5°	853.5	870.4	881.9	900.0	899.9
30°	827.0	845.3	857.5	877.5	878.5
32.5°	798.6	816.7	830.7	853.6	855.5
35°	767.2	785.1	800.8	826.7	830.9
37.5°	731.6	750.5	768.5	798.4	805.0
40°	693.7	711.6	732.1	767.5	775.9
42.5°	652.4	669.9	695.9	733.9	743.9
45°	607.1	623.7	655.2	699.5	710.9
47.5°	558.0	575.2	613.0	663.4	675.1
50°	506.9	525.7	570.3	624.5	637.9
52.5°	453.0	477.0	528.4	585.5	601.0
55°	401.2	429.8	487.3	546.7	564.6
57.5°	352.4	382.8	447.4	509.2	528.9
60°	305.1	336.0	407.3	471.0	493.1
62.5°	259.8	291.2	369.0	435.0	458.8
65°	217.9	250.5	334.1	402.4	427.7
67.5°	180.9	215.4	302.6	373.3	399.3
70°	148.9	184.8	275.4	348.2	373.8
72.5°	121.0	158.0	251.2	326.9	352.0
75°	97.2	135.8	230.3	308.3	332.1
77.5°	77.8	118.4	212.1	289.7	312.8
80°	61.5	103.3	196.8	270.8	293.7
82.5°	47.4	88.2	182.0	251.5	273.2
85°	32.0	72.6	163.1	230.6	249.7
87.5°	15.4	54.4	139.7	203.3	221.4
90°	0.9	35.9	115.0	175.0	192.7
92.5°	0.6	32.6	105.6	161.7	179.7
95°	0.5	29.8	97.2	150.0	167.7
97.5°	0.5	27.3	88.2	138.4	155.6
100°	0.4	25.1	79.2	126.0	142.4
102.5°	0.4	23.0	70.3	112.9	128.3
105°	0.5	21.1	62.1	99.9	114.6
107.5°	0.4	19.3	54.7	88.0	101.3
110°	0.5	17.8	48.2	77.0	89.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	16.5	42.7	67.5	78.4
115°	0.6	15.4	37.7	59.3	68.5
117.5°	0.6	14.4	33.7	52.0	59.5
120°	0.8	13.4	30.3	45.4	51.8
122.5°	0.9	12.6	27.3	39.6	45.0
125°	1.1	11.8	24.6	34.8	39.0
127.5°	1.1	10.9	22.2	30.6	34.4
130°	1.2	10.2	20.0	27.2	30.5
132.5°	1.3	9.5	18.2	24.4	27.1
135°	1.5	8.9	16.7	21.9	23.7
137.5°	1.7	8.3	15.3	19.6	20.8
140°	1.8	7.7	14.0	17.4	18.5
142.5°	2.0	7.2	12.7	15.6	16.4
145°	2.0	6.7	11.6	14.1	14.8
147.5°	2.2	6.2	10.4	12.9	13.3
150°	2.3	5.8	9.3	11.7	12.0
152.5°	2.5	5.4	8.3	10.6	10.9
155°	2.5	5.0	7.4	9.4	9.7
157.5°	2.7	4.7	6.6	8.2	8.5
160°	2.8	4.4	5.8	6.9	7.4
162.5°	2.9	4.2	5.2	5.8	6.3
165°	2.9	3.7	4.7	4.9	5.4
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)