

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: 134p144

Luminaire Tested: **APW-GPW217**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 134p144
Test Lab: COOPER LIGHTING RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: APW-GPW217
Description: GENERAL PURPOSE WRAPAROUND, 2 LAMP T8, WITH PRISMATIC WRAP LENS
Light Source: TWO LINEAR FLUORESCENT LAMPS, F17T8 17W - 1310 LUMENS EA
Ballast/Driver: -

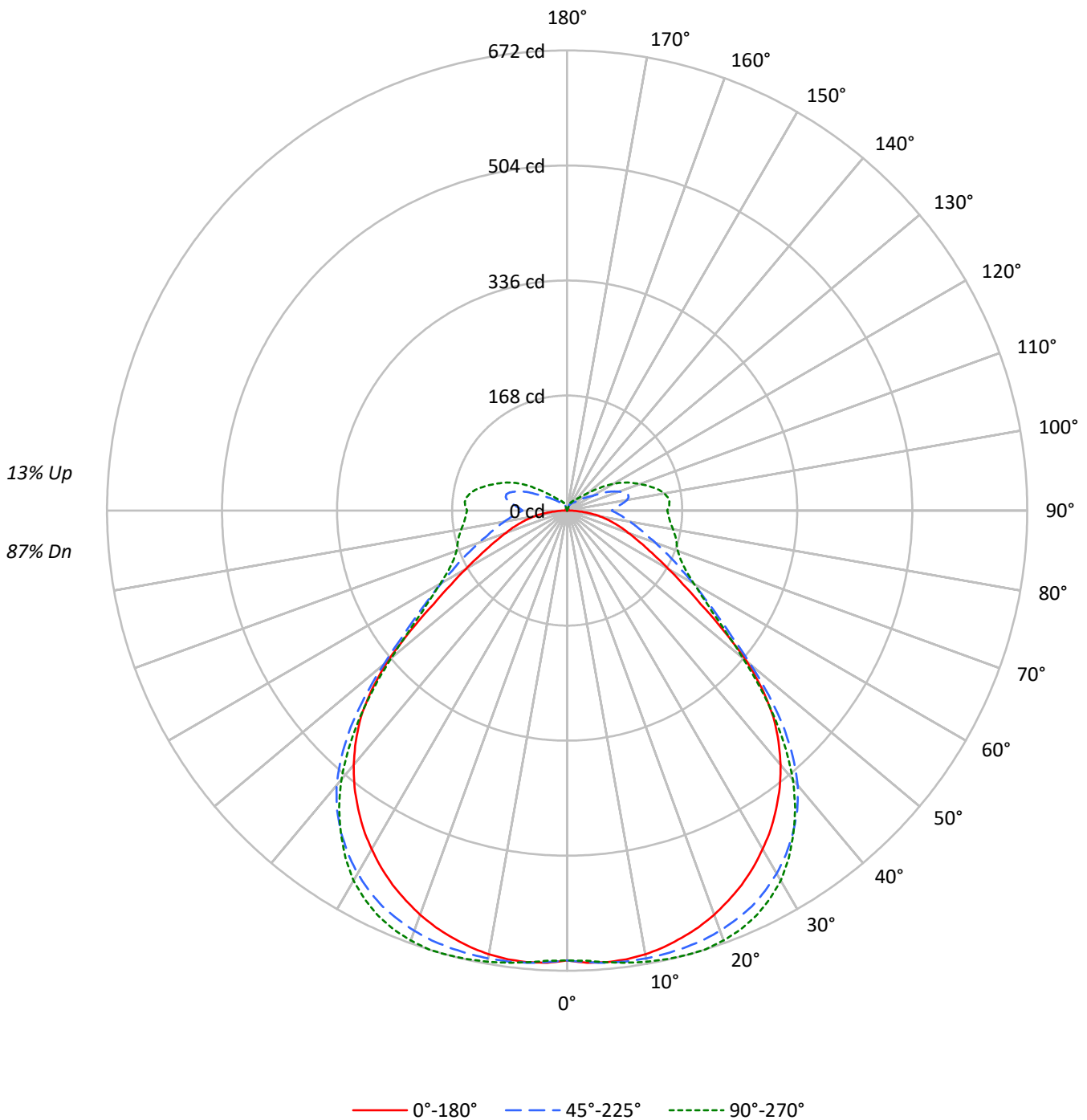
Summary

Lumens per Lamp: 1310 (2 lamps)
Luminaire Lumens: 2116.5 lumens
Efficiency: 80.8%
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.39
Luminous Opening: Rectangular (W 0.62' x L: 2' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29
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	94	94	94	94	90	90	90	90	84	84	84	78	78	78	73	73	73	70
1	85	81	77	74	82	78	75	72	73	70	68	68	66	64	63	62	60	58
2	78	71	66	61	75	69	64	59	64	60	56	60	57	54	56	53	51	49
3	71	63	56	51	68	61	55	50	57	52	48	53	49	46	50	47	44	42
4	65	56	49	44	63	54	48	43	51	45	41	48	43	40	45	41	38	36
5	60	50	43	38	58	49	42	37	46	40	36	43	38	35	41	37	33	31
6	56	45	38	33	53	44	37	33	41	36	32	39	34	31	37	33	29	28
7	52	41	34	29	50	40	34	29	38	32	28	36	31	27	34	30	26	25
8	48	38	31	26	46	37	30	26	35	29	25	33	28	24	31	27	24	22
9	45	34	28	24	43	34	27	23	32	26	23	30	25	22	29	25	21	20
10	42	32	26	21	41	31	25	21	29	24	21	28	23	20	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5658	5658	5658
5°	5722	5731	5722
10°	5754	5806	5850
15°	5759	5893	5991
20°	5755	5984	6121
25°	5729	6062	6204
30°	5678	6085	6205
35°	5593	6045	6055
40°	5452	5890	5767
45°	5188	5444	5224
50°	4582	4689	4488
55°	3573	4023	3888
60°	2945	3651	3686
65°	2567	3464	3790
70°	2392	3449	4330
75°	2362	3726	5490
80°	2430	4612	7786
85°	2371	7707	14820



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	63.3	3.0	2.4	0°	657	657	657	657	657	
10°-20°	186.7	8.8	7.1	5°	662	663	663	663	662	63
20°-30°	291.6	13.8	11.1	15°	646	651	661	670	672	182
30°-40°	352.4	16.6	13.5	25°	603	616	638	651	653	278
40°-50°	334.7	15.8	12.8	35°	532	552	575	580	576	332
50°-60°	238.0	11.2	9.1	45°	426	442	447	436	429	324
60°-70°	162.4	7.7	6.2	55°	238	263	268	267	259	219
70°-80°	120.7	5.7	4.6	65°	126	141	170	180	186	127
80°-90°	90.5	4.3	3.5	75°	71	80	112	144	165	75
90°-100°	83.2	3.9	3.2	85°	24	40	78	124	150	25
100°-110°	80.8	3.8	3.1	90°	1	23	65	123	146	2
110°-120°	56.1	2.7	2.1	95°	0	24	75	133	150	0
120°-130°	29.3	1.4	1.1	105°	1	30	92	122	130	1
130°-140°	14.3	0.7	0.5	115°	2	25	64	89	97	2
140°-150°	8.0	0.4	0.3	125°	2	15	33	50	57	2
150°-160°	4.2	0.2	0.2	135°	3	10	19	26	29	2
160°-170°	0.3	0.0	0.0	145°	3	8	14	18	19	2
170°-180°	0.0	0.0	0.0	155°	3	6	10	12	13	1
0°-30°	541.6	25.6	20.7	165°	0	0	0	0	0	0
0°-40°	894.0	42.2	34.1	175°	0	0	0	0	0	0
0°-60°	1466.7	69.3	56.0	180°	0	0	0	0	0	0
0°-90°	1840.3	87.0	70.2							
90°-120°	220.1	10.4	8.4							
90°-150°	271.6	12.8	10.4							
90°-180°	276.0	13.0	10.5							
0°-180°	2116.5	100.0	80.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	657	657	657	657	657
2.5°	661	661	660	660	658
5°	662	663	663	663	662
7.5°	661	662	664	666	666
10°	658	660	664	669	669
12.5°	653	656	663	670	671
15°	646	651	661	670	672
17.5°	638	644	658	669	672
20°	628	637	653	666	668
22.5°	616	627	646	660	662
25°	603	616	638	651	653
27.5°	588	604	626	639	640
30°	571	589	612	623	624
32.5°	553	572	595	604	602
35°	532	552	575	580	576
37.5°	510	530	552	551	547
40°	485	505	524	518	513
42.5°	457	476	488	479	473
45°	426	442	447	436	429
47.5°	387	401	399	390	382
50°	342	355	350	344	335
52.5°	288	307	304	302	293
55°	238	263	268	267	259
57.5°	201	224	238	238	234
60°	171	191	212	215	214
62.5°	146	164	189	196	198
65°	126	141	170	180	186
67.5°	109	122	152	168	178
70°	95	105	137	158	172
72.5°	83	92	123	151	168
75°	71	80	112	144	165
77.5°	60	70	102	138	161
80°	49	60	93	133	157
82.5°	37	50	85	128	153
85°	24	40	78	124	150
87.5°	12	31	71	122	148
90°	1	23	65	123	146
92.5°	0	22	69	129	149
95°	0	24	75	133	150
97.5°	0	25	82	135	148
100°	1	27	89	134	144
102.5°	1	29	92	129	138
105°	1	30	92	122	130
107.5°	1	30	88	114	122
110°	1	29	81	107	113



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2	27	73	98	105
115°	2	25	64	89	97
117.5°	2	22	52	80	88
120°	2	20	43	70	78
122.5°	2	17	38	60	68
125°	2	15	33	50	57
127.5°	2	13	28	42	48
130°	2	12	25	36	40
132.5°	3	11	22	31	34
135°	3	10	19	26	29
137.5°	3	9	17	23	25
140°	3	9	16	21	22
142.5°	3	8	15	20	20
145°	3	8	14	18	19
147.5°	3	7	13	16	17
150°	3	7	12	15	16
152.5°	3	6	11	14	14
155°	3	6	10	12	13
157.5°	3	5	9	11	12
160°	3	5	8	10	10
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)