

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: ITL42297

Luminaire Tested: **APS-WS232**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: ITL42297
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: APS-WS232
Description: ALL PRO Ambient 4ft 2Lp Commercial Wide Striplight
BOTTOM.
Light Source: TWO 32-WATT FO32T8 FLUORESCENTS, EACH RATED 2900 LUMENS.
Ballast/Driver: 2 LAMP ALL PRO BALLAST

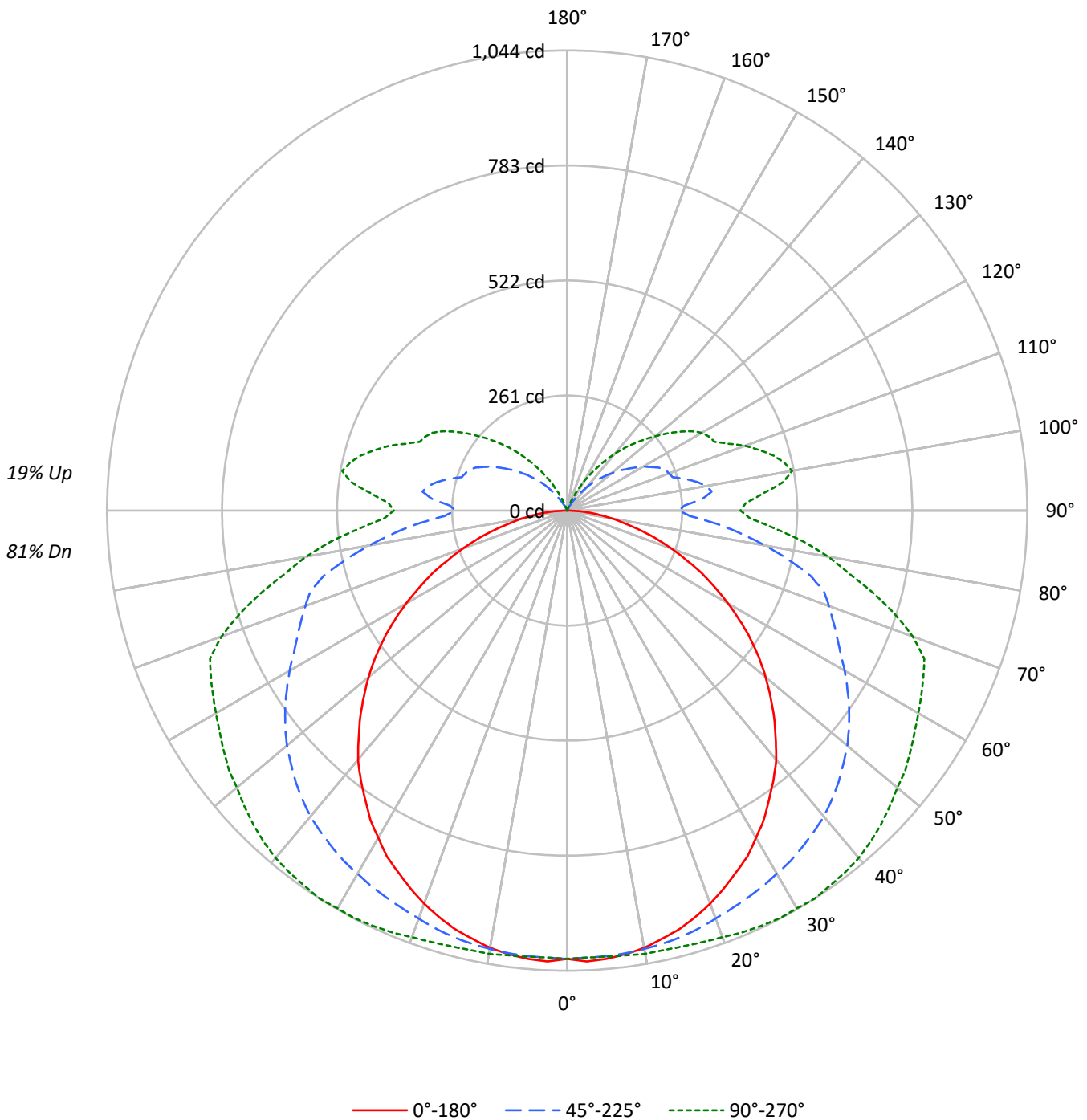
Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 5310.2 lumens
Efficiency: 91.6%
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.56 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.36' x L: 4' x H: 0.14')
CIE Type: Semi-Direct

Input Watts (W): 57.6
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	105	105	105	105	100	100	100	100	92	92	92	84	84	84	77	77	77	74
1	93	87	83	78	88	84	79	75	76	73	70	70	67	64	64	61	59	56
2	83	74	67	61	79	71	65	59	65	60	55	59	55	51	54	50	47	44
3	75	64	56	49	71	61	54	48	56	50	45	51	46	42	47	42	39	36
4	68	56	48	41	65	54	46	40	49	43	37	45	39	35	41	36	32	30
5	62	50	41	35	59	48	40	34	44	37	32	40	34	30	37	32	28	25
6	57	44	36	30	54	43	35	29	39	32	27	36	30	26	33	28	24	22
7	53	40	32	26	50	38	31	25	35	29	24	33	27	22	30	25	21	19
8	49	36	28	23	47	35	27	22	32	26	21	30	24	20	27	22	19	17
9	46	33	25	20	44	32	25	20	30	23	19	27	22	18	25	20	17	15
10	43	30	23	18	41	29	22	18	27	21	17	25	20	16	23	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7506	7506	7506
5°	7542	7336	7290
10°	7502	7205	7182
15°	7444	7103	7109
20°	7363	7006	7127
25°	7263	6961	7219
30°	7164	6954	7313
35°	7032	6987	7430
40°	6914	7037	7559
45°	6704	7067	7665
50°	6490	7104	7784
55°	6235	7131	7996
60°	5884	7172	8264
65°	5503	7302	8672
70°	4975	7631	8908
75°	4329	7869	8569
80°	3708	7383	8224
85°	2748	6695	7653



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	96.8	1.8	1.7	0°	1017	1017	1017	1017	1017	
10°-20°	283.4	5.3	4.9	5°	1021	1015	1015	1013	1016	97
20°-30°	449.2	8.5	7.7	15°	983	989	1001	1014	1023	277
30°-40°	580.6	10.9	10.0	25°	906	930	969	1018	1040	418
40°-50°	660.4	12.4	11.4	35°	799	843	931	1010	1039	501
50°-60°	681.3	12.8	11.7	45°	664	741	871	974	1007	512
60°-70°	649.4	12.2	11.2	55°	508	628	781	907	951	453
70°-80°	540.5	10.2	9.3	65°	338	494	675	838	892	333
80°-90°	346.1	6.5	6.0	75°	171	345	571	694	717	183
90°-100°	291.7	5.5	5.0	85°	45	203	338	456	474	49
100°-110°	275.7	5.2	4.8	90°	0	113	253	355	393	3
110°-120°	202.5	3.8	3.5	95°	0	139	308	421	446	0
120°-130°	139.1	2.6	2.4	105°	0	104	278	425	484	0
130°-140°	76.8	1.4	1.3	115°	0	66	230	334	369	0
140°-150°	31.0	0.6	0.5	125°	0	32	164	266	312	0
150°-160°	5.8	0.1	0.1	135°	0	6	100	178	215	0
160°-170°	0.1	0.0	0.0	145°	0	0	39	91	120	0
170°-180°	0.0	0.0	0.0	155°	0	0	3	20	36	0
0°-30°	829.4	15.6	14.3	165°	0	0	0	0	0	0
0°-40°	1410.0	26.6	24.3	175°	0	0	0	0	0	0
0°-60°	2751.7	51.8	47.4	180°	0	0	0	0	0	0
0°-90°	4287.6	80.7	73.9							
90°-120°	769.8	14.5	13.3							
90°-150°	1016.7	19.1	17.5							
90°-180°	1023.0	19.3	17.6							
0°-180°	5310.2	100.0	91.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1017	1017	1017	1017	1017
2.5°	1024	1018	1015	1012	1015
5°	1021	1015	1015	1013	1016
7.5°	1015	1011	1013	1014	1018
10°	1007	1006	1010	1015	1021
12.5°	995	998	1006	1015	1021
15°	983	989	1001	1014	1023
17.5°	967	977	994	1013	1026
20°	949	963	985	1014	1030
22.5°	928	947	977	1016	1036
25°	906	930	969	1018	1040
27.5°	885	911	961	1018	1043
30°	857	889	951	1017	1042
32.5°	831	868	943	1016	1044
35°	799	843	931	1010	1039
37.5°	769	819	919	1004	1035
40°	738	795	906	997	1029
42.5°	700	767	889	986	1019
45°	664	741	871	974	1007
47.5°	626	713	850	957	993
50°	588	685	830	941	978
52.5°	549	657	806	923	967
55°	508	628	781	907	951
57.5°	465	597	754	889	935
60°	422	565	727	871	920
62.5°	378	529	699	854	906
65°	338	494	675	838	892
67.5°	292	458	653	822	877
70°	252	420	632	800	834
72.5°	212	380	611	752	779
75°	171	345	571	694	717
77.5°	134	316	514	632	653
80°	104	295	456	575	601
82.5°	74	256	397	521	541
85°	45	203	338	456	474
87.5°	21	154	278	393	416
90°	0	113	253	355	393
92.5°	0	137	267	375	406
95°	0	139	308	421	446
97.5°	0	125	331	466	494
100°	0	114	320	463	518
102.5°	0	112	301	447	504
105°	0	104	278	425	484
107.5°	0	94	251	398	457
110°	0	82	246	367	430



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	73	242	336	396
115°	0	66	230	334	369
117.5°	0	56	214	324	363
120°	0	49	199	307	353
122.5°	0	40	181	288	335
125°	0	32	164	266	312
127.5°	0	25	148	244	288
130°	0	17	131	223	263
132.5°	0	10	116	200	239
135°	0	6	100	178	215
137.5°	0	4	85	157	193
140°	0	1	69	135	167
142.5°	0	0	53	113	143
145°	0	0	39	91	120
147.5°	0	0	28	72	97
150°	0	0	17	54	76
152.5°	0	0	7	36	54
155°	0	0	3	20	36
157.5°	0	0	1	8	19
160°	0	0	1	2	7
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)