

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: P31449

Luminaire Tested: **2ALNG-217-SDL-UNV-EB81-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P31449
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-217-SDL-UNV-EB81-U
Description: METALUX 2X2 ARCLINE LFL FIXTURE WITH LENS AND OVERLAY
Light Source: (2) GE BIPIN T8 DOUBLE ENDED 17W LINEAR FLUORESCENT LAMP 3500K, 1350 EA
Ballast/Driver: -
GE332-MVPS-N

Summary

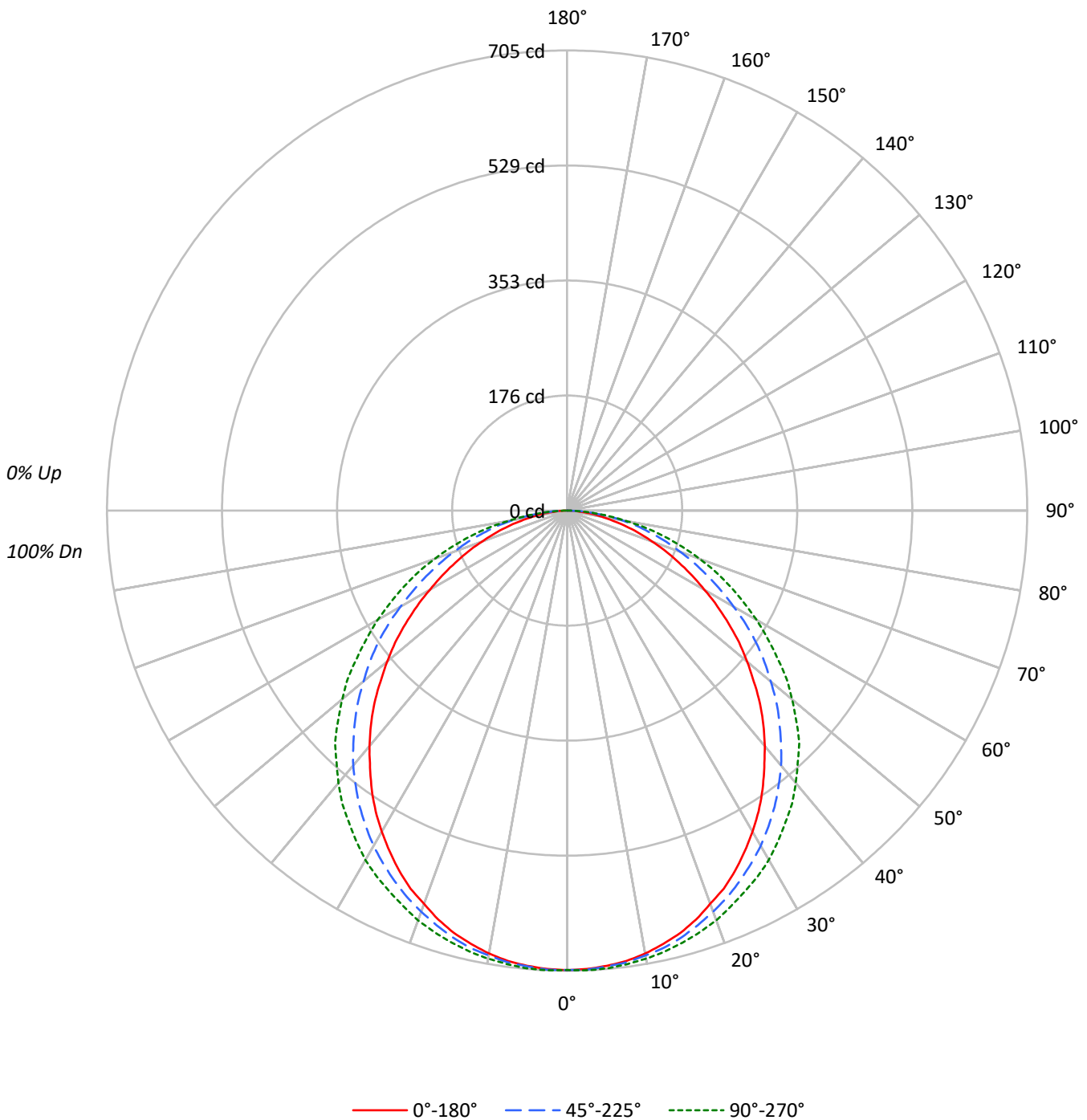
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 1966.8 lumens
Efficiency: 72.8%
Efficacy: 54.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.37
Luminous Opening: Rectangular (W 1.77' x L: 1.77' x H: 0')
CIE Type: Direct

Input Watts (W): 35.8
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	87	87	87	87	85	85	85	85	81	81	81	77	77	77	74	74	74	74	74	74	73	
1	79	76	73	70	77	74	71	69	71	69	66	68	66	64	65	64	63	65	64	63	61	
2	72	66	61	57	70	65	60	56	62	58	55	60	56	54	57	55	52	57	55	52	51	
3	66	58	52	47	64	57	51	47	55	50	46	53	49	45	51	47	44	51	47	44	43	
4	60	51	45	40	58	50	44	40	49	43	39	47	42	39	45	41	38	45	41	38	37	
5	55	46	39	35	54	45	39	34	44	38	34	42	37	34	41	37	33	41	37	33	32	
6	51	41	35	30	50	41	35	30	39	34	30	38	33	29	37	33	29	37	33	29	28	
7	47	38	31	27	46	37	31	27	36	30	26	35	30	26	34	29	26	34	29	26	25	
8	44	34	28	24	43	34	28	24	33	27	24	32	27	23	31	27	23	31	27	23	22	
9	41	31	25	21	40	31	25	21	30	25	21	29	25	21	29	24	21	29	24	21	20	
10	39	29	23	19	38	29	23	19	28	23	19	27	23	19	27	22	19	27	22	19	18	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2417	2417	2417
5°	2412	2415	2426
10°	2402	2412	2429
15°	2381	2406	2434
20°	2341	2389	2440
25°	2307	2371	2439
30°	2251	2350	2449
35°	2187	2321	2443
40°	2110	2285	2442
45°	2029	2233	2442
50°	1922	2173	2403
55°	1807	2118	2352
60°	1668	2025	2300
65°	1535	1933	2242
70°	1395	1847	2168
75°	1247	1764	2056
80°	1067	1680	1799
85°	827	1339	1497



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.7	3.4	2.5	0°	704	704	704	704	704	
10°-20°	191.0	9.7	7.1	5°	700	700	701	703	704	66
20°-30°	288.6	14.7	10.7	15°	670	671	677	682	685	189
30°-40°	345.8	17.6	12.8	25°	609	614	626	639	644	280
40°-50°	354.3	18.0	13.1	35°	522	531	554	575	583	326
50°-60°	312.9	15.9	11.6	45°	418	430	460	489	503	321
60°-70°	233.4	11.9	8.6	55°	302	318	354	382	393	270
70°-80°	136.3	6.9	5.0	65°	189	205	238	266	276	188
80°-90°	37.9	1.9	1.4	75°	94	107	133	150	155	100
90°-100°	0.0	0.0	0.0	85°	21	28	34	36	38	26
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	546.3	27.8	20.2							
0°-40°	892.1	45.4	33.0							
0°-60°	1559.3	79.3	57.8							
0°-90°	1966.8	100.0	72.8							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	1966.8	100.0	72.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704	704	704	704	704
2.5°	703	703	704	705	705
5°	700	700	701	703	704
7.5°	696	696	698	700	701
10°	689	690	692	695	697
12.5°	680	682	686	690	692
15°	670	671	677	682	685
17.5°	657	659	666	674	677
20°	641	646	654	663	668
22.5°	627	631	641	652	656
25°	609	614	626	639	644
27.5°	589	595	610	625	632
30°	568	575	593	610	618
32.5°	546	553	574	592	601
35°	522	531	554	575	583
37.5°	496	508	532	554	566
40°	471	484	510	534	545
42.5°	445	457	485	512	523
45°	418	430	460	489	503
47.5°	388	404	435	464	476
50°	360	374	407	436	450
52.5°	332	346	381	409	424
55°	302	318	354	382	393
57.5°	273	290	325	353	364
60°	243	262	295	323	335
62.5°	216	233	266	294	305
65°	189	205	238	266	276
67.5°	164	179	211	236	247
70°	139	155	184	208	216
72.5°	116	129	159	180	185
75°	94	107	133	150	155
77.5°	72	86	110	121	125
80°	54	66	85	90	91
82.5°	37	47	58	61	65
85°	21	28	34	36	38
87.5°	9	12	15	16	16
90°	0	0	0	0	0

(END OF REPORT)