

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: P32141

Luminaire Tested: **2ALNG-354T5-SDL-UNV-EBT1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P32141
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2ALNG-354T5-SDL-UNV-EBT1-U
Description: METALUX 2X4 ARCLINE LFL FIXTURE WITH LENS WITH DIFFUSER
Light Source: (3) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K
GE F54T5-SPX35-ECO 54 WATTS
Ballast/Driver: -
ICN-4S54-90C-2LS-G

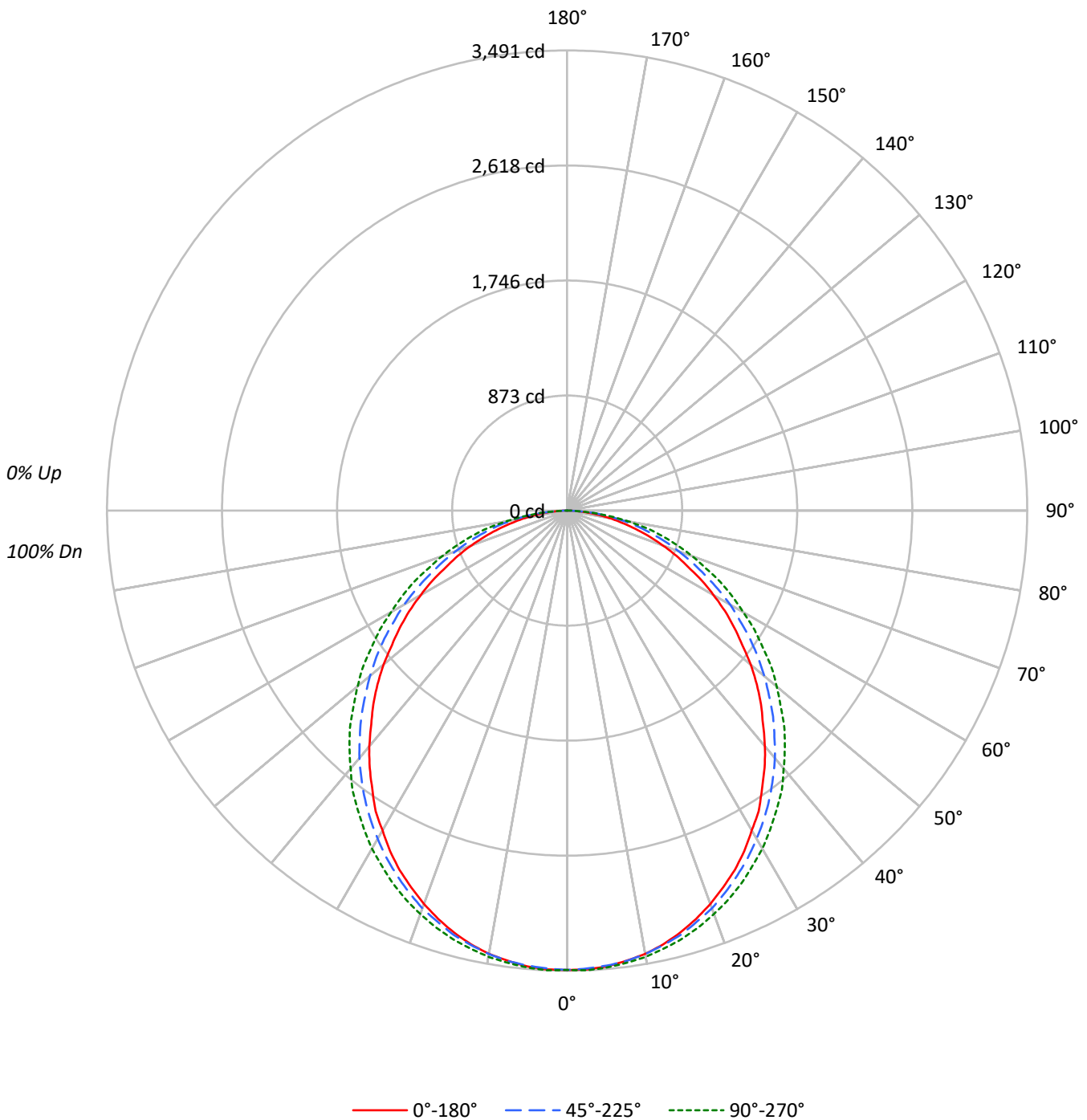
Summary

Lumens per Lamp: 4400 (3 lamps)
Luminaire Lumens: 9586.4 lumens
Efficiency: 72.6%
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.34
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 167.9
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	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73
1	79	75	72	69	77	74	71	68	71	68	66	68	66	64	65	64	62	61
2	72	66	61	57	70	64	60	56	62	58	55	59	56	53	57	54	52	51
3	65	58	52	47	64	57	51	47	54	50	46	52	48	45	51	47	44	43
4	60	51	45	40	58	50	44	40	48	43	39	47	42	39	45	41	38	36
5	55	46	39	34	54	45	39	34	43	38	34	42	37	33	41	36	33	32
6	51	41	35	30	50	41	34	30	39	34	30	38	33	29	37	33	29	28
7	47	37	31	27	46	37	31	26	36	30	26	35	30	26	34	29	26	24
8	44	34	28	24	43	34	28	24	33	27	23	32	27	23	31	27	23	22
9	41	31	25	21	40	31	25	21	30	25	21	29	25	21	29	24	21	20
10	39	29	23	19	38	29	23	19	28	23	19	27	22	19	27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5591	5581	5604
10°	5562	5566	5600
15°	5505	5533	5588
20°	5421	5483	5561
25°	5325	5407	5529
30°	5190	5327	5486
35°	5048	5238	5426
40°	4891	5138	5354
45°	4718	5013	5289
50°	4536	4873	5180
55°	4333	4733	5066
60°	4114	4583	4948
65°	3838	4370	4867
70°	3626	4208	4724
75°	3323	4061	4637
80°	3012	3872	4306
85°	2559	3424	3406



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	329.8	3.4	2.5	0°	3485	3485	3485	3485	3485	
10°-20°	940.5	9.8	7.1	5°	3471	3470	3465	3475	3479	329
20°-30°	1409.8	14.7	10.7	15°	3314	3319	3331	3351	3364	934
30°-40°	1672.3	17.4	12.7	25°	3008	3025	3054	3104	3123	1384
40°-50°	1700.1	17.7	12.9	35°	2577	2605	2674	2740	2770	1613
50°-60°	1506.7	15.7	11.4	45°	2079	2118	2209	2293	2331	1603
60°-70°	1140.9	11.9	8.6	55°	1549	1591	1692	1776	1811	1385
70°-80°	685.6	7.2	5.2	65°	1011	1062	1151	1239	1282	1012
80°-90°	200.6	2.1	1.5	75°	536	572	655	725	748	569
90°-100°	0.0	0.0	0.0	85°	139	162	186	188	185	158
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°	2680.1	28.0	20.3							
0°-40°	4352.5	45.4	33.0							
0°-60°	7559.3	78.9	57.3							
0°-90°	9586.4	100.0	72.6							
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°	9586.4	100.0	72.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3485	3485	3485	3485	3485
2.5°	3484	3483	3477	3485	3491
5°	3471	3470	3465	3475	3479
7.5°	3445	3448	3446	3458	3461
10°	3414	3412	3416	3431	3437
12.5°	3371	3374	3376	3395	3402
15°	3314	3319	3331	3351	3364
17.5°	3249	3259	3271	3303	3315
20°	3175	3187	3211	3241	3257
22.5°	3093	3105	3135	3179	3195
25°	3008	3025	3054	3104	3123
27.5°	2911	2927	2969	3021	3042
30°	2801	2826	2875	2935	2961
32.5°	2705	2721	2778	2842	2867
35°	2577	2605	2674	2740	2770
37.5°	2460	2489	2564	2633	2675
40°	2335	2367	2453	2529	2556
42.5°	2199	2247	2328	2409	2444
45°	2079	2118	2209	2293	2331
47.5°	1952	1988	2077	2171	2197
50°	1817	1854	1952	2036	2075
52.5°	1675	1719	1823	1910	1955
55°	1549	1591	1692	1776	1811
57.5°	1420	1460	1555	1646	1685
60°	1282	1330	1428	1506	1542
62.5°	1155	1190	1288	1369	1415
65°	1011	1062	1151	1239	1282
67.5°	897	936	1024	1107	1134
70°	773	818	897	980	1007
72.5°	651	690	778	844	876
75°	536	572	655	725	748
77.5°	423	463	541	594	619
80°	326	357	419	461	466
82.5°	222	254	303	325	327
85°	139	162	186	188	185
87.5°	57	69	72	73	74
90°	0	0	0	0	0

(END OF REPORT)