

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: P229417

Luminaire Tested: **22ALNG-LD5-31-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36087)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD5-31-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3011.0 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

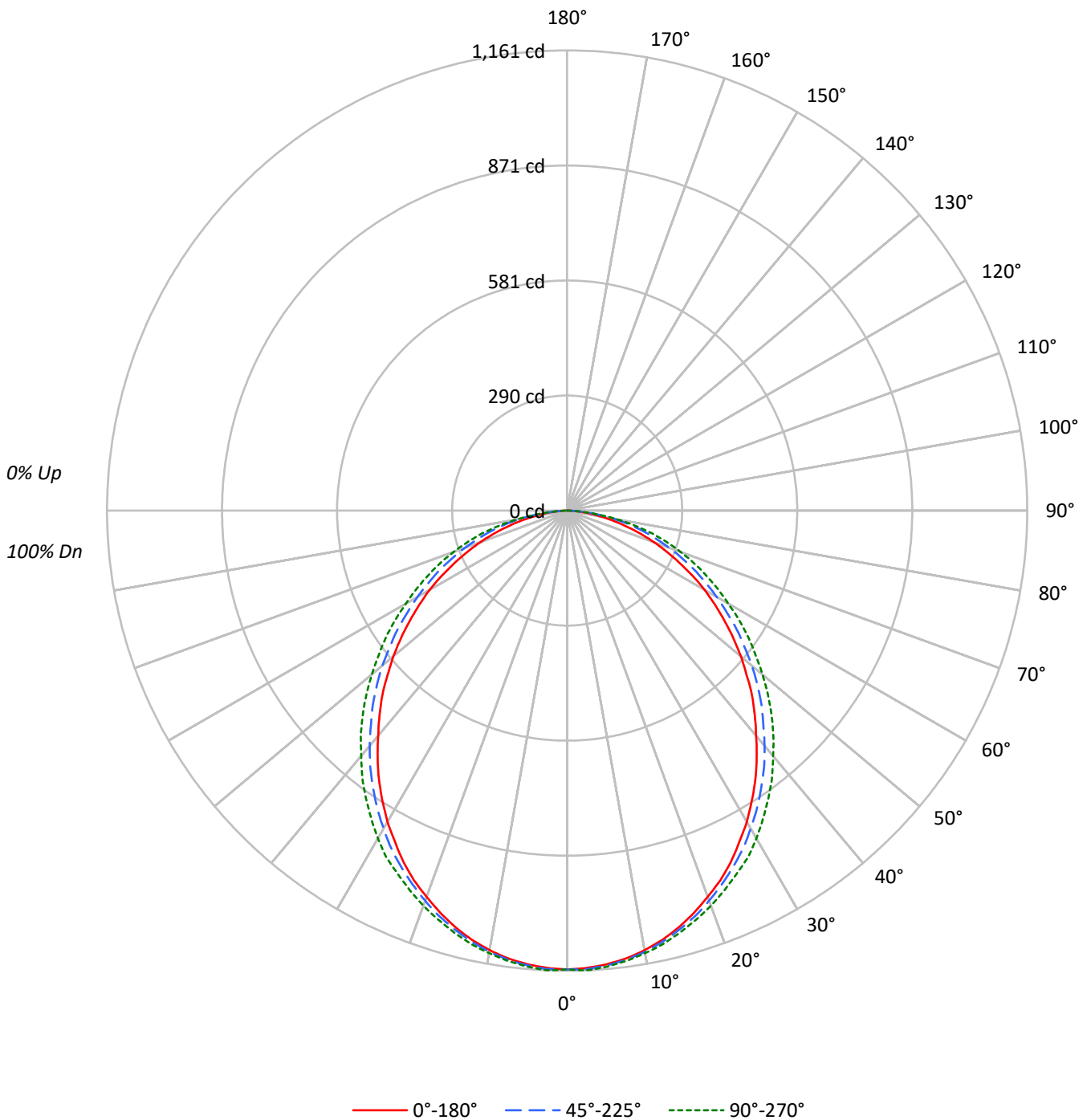
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3708	3708	3708
5°	3693	3703	3713
10°	3662	3677	3687
15°	3609	3628	3654
20°	3534	3570	3616
25°	3455	3504	3573
30°	3353	3426	3532
35°	3237	3338	3462
40°	3101	3240	3379
45°	2989	3140	3304
50°	2851	3032	3205
55°	2705	2916	3119
60°	2569	2793	3006
65°	2374	2684	2936
70°	2183	2566	2849
75°	1910	2435	2735
80°	1592	2206	2346
85°	1224	1558	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.6
10°-20°	308.6	10.3
20°-30°	457.3	15.2
30°-40°	534.7	17.8
40°-50°	534.4	17.7
50°-60°	465.8	15.5
60°-70°	348.3	11.6
70°-80°	202.7	6.7
80°-90°	49.8	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	875.2	29.1
0°-40°	1410.0	46.8
0°-60°	2410.2	80.0
0°-90°	3011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3011.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1149	1150	1152	1155	1155	109
15°	1088	1090	1094	1099	1102	307
25°	978	981	992	1005	1011	450
35°	828	834	854	878	886	517
45°	660	668	693	719	730	508
55°	484	494	522	546	559	434
65°	313	326	354	377	388	312
75°	154	171	197	212	221	165
85°	33	39	42	41	39	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1158.0	1158.0	1158.0	1158.0	<i>1158.0</i>
2.5°	<i>1155.0</i>	<i>1155.0</i>	<i>1158.0</i>	<i>1159.5</i>	<i>1161.0</i>
5°	1148.9	1150.4	1152.0	1155.0	<i>1155.0</i>
7.5°	1139.8	1141.4	1142.9	1145.9	<i>1145.9</i>
10°	1126.2	1127.7	1130.8	1133.8	<i>1133.8</i>
12.5°	1109.6	1111.1	1114.1	1117.1	<i>1120.2</i>
15°	1088.4	1089.9	1094.4	1099.0	<i>1102.0</i>
17.5°	1064.2	1067.2	1073.2	1079.3	<i>1082.3</i>
20°	1036.9	1039.9	1047.5	1058.1	<i>1061.1</i>
22.5°	1009.7	1011.2	1020.3	1032.4	<i>1036.9</i>
25°	977.9	980.9	991.5	1005.1	<i>1011.2</i>
27.5°	941.5	946.1	961.2	977.9	<i>987.0</i>
30°	906.7	909.8	926.4	947.6	<i>955.2</i>
32.5°	867.4	873.4	891.6	912.8	<i>920.4</i>
35°	828.0	834.1	853.7	878.0	<i>885.5</i>
37.5°	785.6	791.7	815.9	840.1	<i>849.2</i>
40°	741.7	750.8	775.0	800.8	<i>808.3</i>
42.5°	700.9	708.4	732.6	758.4	<i>770.5</i>
45°	660.0	667.6	693.3	719.0	<i>729.6</i>
47.5°	614.6	622.1	650.9	676.6	<i>687.2</i>
50°	572.2	579.8	608.5	634.3	<i>643.3</i>
52.5°	528.3	537.4	563.1	590.4	<i>599.4</i>
55°	484.4	493.5	522.2	546.5	<i>558.6</i>
57.5°	442.0	452.6	476.8	502.6	<i>514.7</i>
60°	401.1	408.7	436.0	460.2	<i>469.3</i>
62.5°	357.2	366.3	393.6	419.3	<i>428.4</i>
65°	313.3	325.5	354.2	376.9	<i>387.5</i>
67.5°	272.5	284.6	313.3	334.5	<i>346.6</i>
70°	233.1	245.2	274.0	293.7	<i>304.3</i>
72.5°	193.8	208.9	234.6	252.8	<i>261.9</i>
75°	154.4	171.1	196.8	211.9	<i>221.0</i>
77.5°	119.6	136.2	158.9	172.6	<i>175.6</i>
80°	86.3	102.9	119.6	125.6	<i>127.2</i>
82.5°	59.0	71.1	80.2	80.2	<i>83.3</i>
85°	33.3	39.4	42.4	40.9	<i>39.4</i>
87.5°	12.1	13.6	12.1	7.6	<i>7.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)