

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: P229418

Luminaire Tested: **22ALNG-LD5-35-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229418  
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-LD5-35-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: 3406.0 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

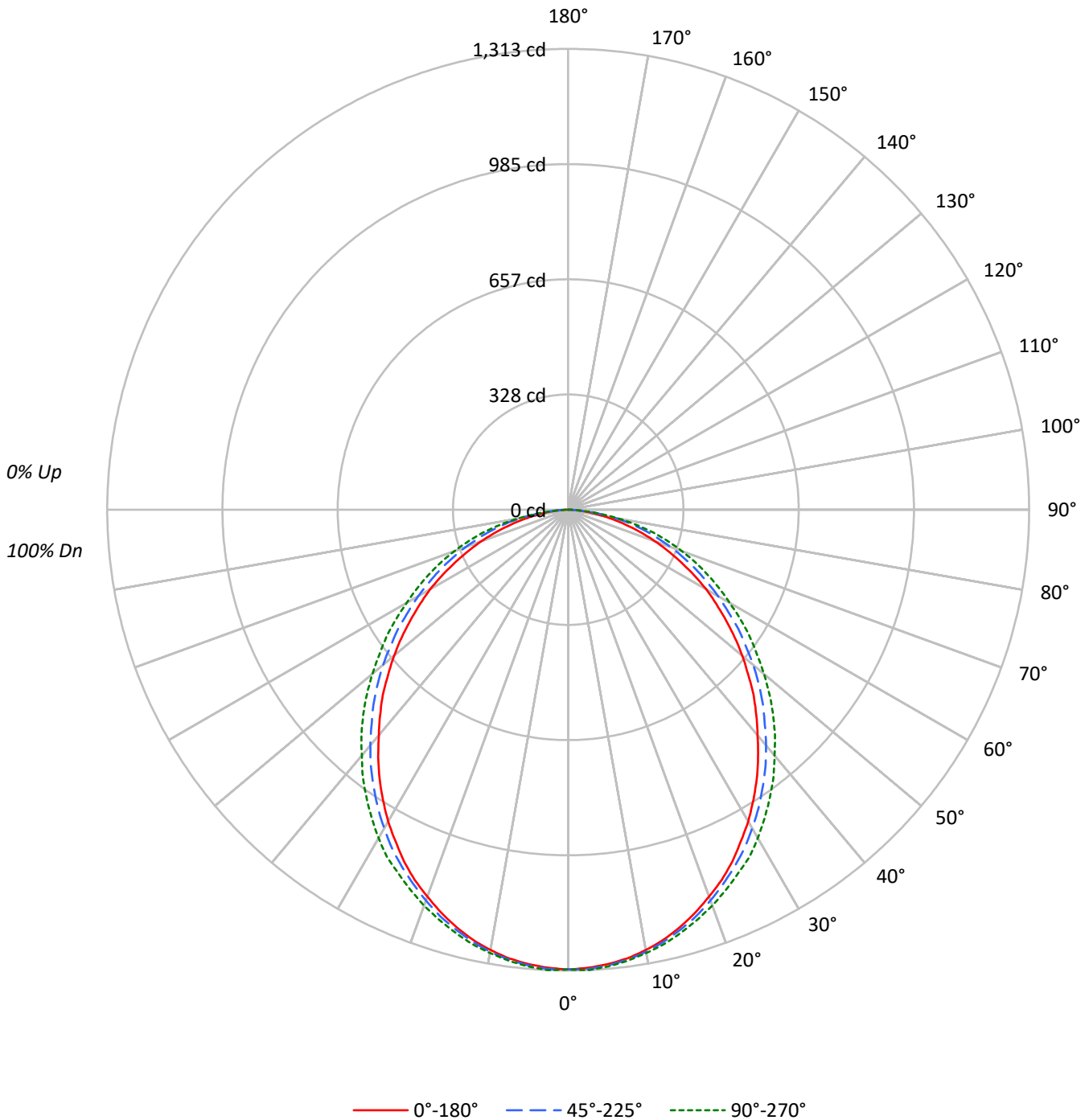
Input Watts (W): 29.52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4195	4195	4195
5°	4178	4189	4200
10°	4143	4159	4171
15°	4082	4105	4133
20°	3997	4038	4091
25°	3909	3963	4042
30°	3793	3875	3996
35°	3662	3775	3916
40°	3507	3665	3823
45°	3381	3552	3738
50°	3225	3430	3626
55°	3059	3299	3528
60°	2907	3158	3400
65°	2686	3036	3322
70°	2469	2902	3223
75°	2162	2754	3093
80°	1800	2495	2652
85°	1385	1760	1635



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.6	3.6
10°-20°	349.1	10.3
20°-30°	517.3	15.2
30°-40°	604.9	17.8
40°-50°	604.5	17.7
50°-60°	526.9	15.5
60°-70°	394.1	11.6
70°-80°	229.3	6.7
80°-90°	56.3	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°	990.0	29.1
0°-40°	1594.9	46.8
0°-60°	2726.3	80.0
0°-90°	3406.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3406.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1300	1301	1303	1306	1306	123
15°	1231	1233	1238	1243	1247	347
25°	1106	1110	1122	1137	1144	509
35°	937	944	966	993	1002	585
45°	747	755	784	813	825	574
55°	548	558	591	618	632	491
65°	354	368	401	426	438	353
75°	175	194	223	240	250	187
85°	38	44	48	46	44	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1309.9	1309.9	1309.9	1309.9	1309.9
2.5°	1306.5	1306.5	1309.9	1311.6	1313.3
5°	1299.7	1301.4	1303.1	1306.5	1306.5
7.5°	1289.4	1291.1	1292.8	1296.2	1296.2
10°	1274.0	1275.7	1279.1	1282.5	1282.5
12.5°	1255.1	1256.8	1260.3	1263.7	1267.1
15°	1231.2	1232.9	1238.0	1243.1	1246.6
17.5°	1203.8	1207.2	1214.0	1220.9	1224.3
20°	1172.9	1176.4	1184.9	1196.9	1200.3
22.5°	1142.1	1143.8	1154.1	1167.8	1172.9
25°	1106.2	1109.6	1121.6	1137.0	1143.8
27.5°	1065.1	1070.2	1087.3	1106.2	1116.4
30°	1025.7	1029.1	1047.9	1071.9	1080.5
32.5°	981.2	988.0	1008.6	1032.5	1041.1
35°	936.6	943.5	965.7	993.1	1001.7
37.5°	888.7	895.5	922.9	950.3	960.6
40°	839.0	849.3	876.7	905.8	914.4
42.5°	792.8	801.4	828.8	857.9	871.6
45°	746.6	755.1	784.2	813.4	825.3
47.5°	695.2	703.8	736.3	765.4	777.4
50°	647.3	655.8	688.4	717.5	727.7
52.5°	597.6	607.9	637.0	667.8	678.1
55°	547.9	558.2	590.8	618.1	631.8
57.5°	500.0	512.0	539.4	568.5	582.2
60°	453.8	462.3	493.1	520.5	530.8
62.5°	404.1	414.4	445.2	474.3	484.6
65°	354.5	368.1	400.7	426.4	438.4
67.5°	308.2	321.9	354.5	378.4	392.1
70°	263.7	277.4	309.9	332.2	344.2
72.5°	219.2	236.3	265.4	286.0	296.2
75°	174.7	193.5	222.6	239.7	250.0
77.5°	135.3	154.1	179.8	195.2	198.6
80°	97.6	116.4	135.3	142.1	143.8
82.5°	66.8	80.5	90.8	90.8	94.2
85°	37.7	44.5	47.9	46.2	44.5
87.5°	13.7	15.4	13.7	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)