

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: P229405

Luminaire Tested: **22ALNG-LD5-31-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229405
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-L830-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2891.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

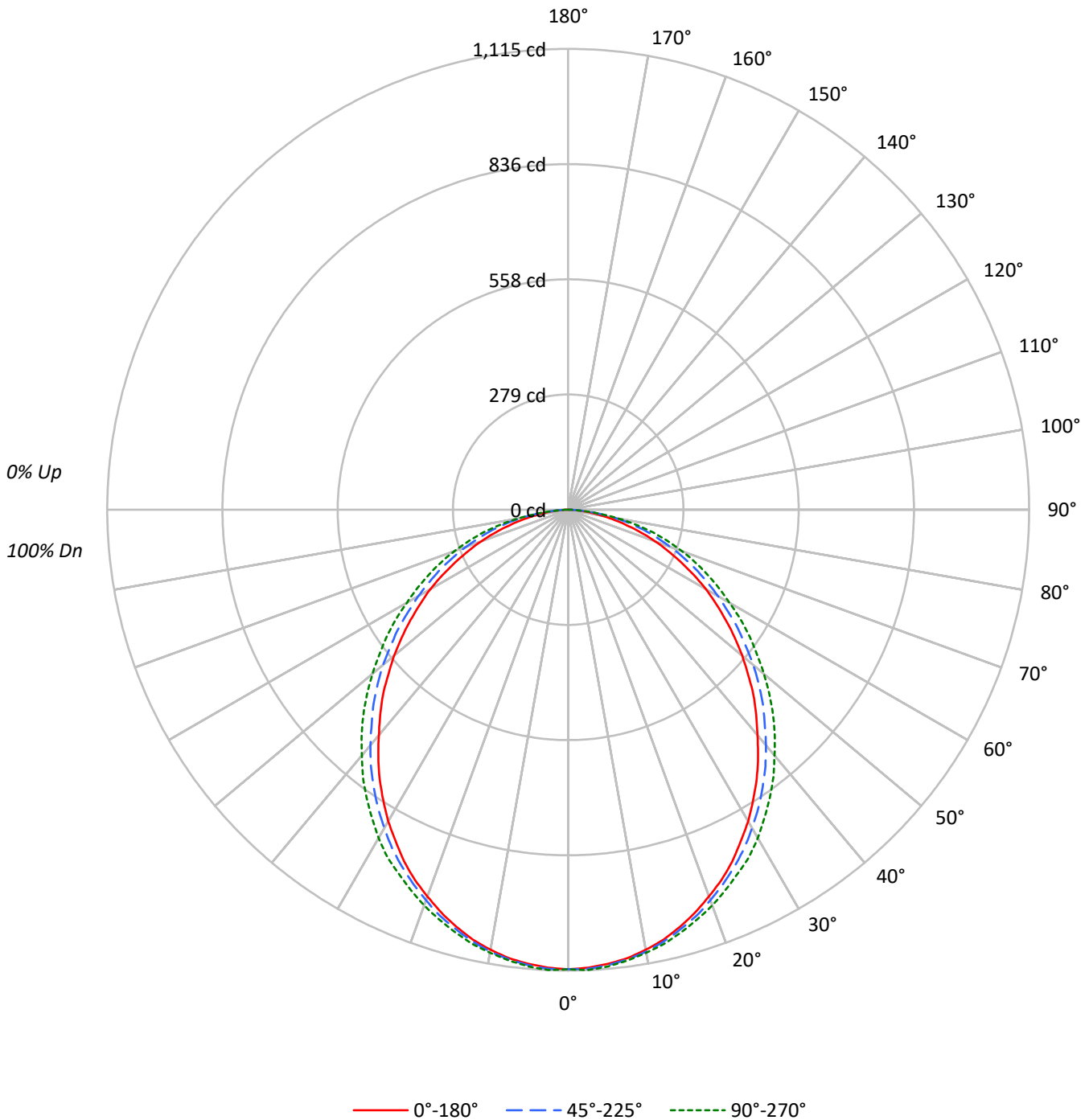
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3561	3561	3561
5°	3546	3555	3565
10°	3516	3531	3540
15°	3465	3484	3508
20°	3393	3428	3472
25°	3318	3364	3431
30°	3219	3289	3391
35°	3108	3205	3324
40°	2977	3111	3245
45°	2870	3015	3173
50°	2737	2911	3077
55°	2597	2800	2994
60°	2467	2681	2886
65°	2280	2577	2820
70°	2096	2464	2735
75°	1834	2337	2626
80°	1527	2117	2252
85°	1176	1495	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.6
10°-20°	296.3	10.3
20°-30°	439.1	15.2
30°-40°	513.4	17.8
40°-50°	513.1	17.7
50°-60°	447.3	15.5
60°-70°	334.5	11.6
70°-80°	194.6	6.7
80°-90°	47.8	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°	840.3	29.1
0°-40°	1353.8	46.8
0°-60°	2314.1	80.0
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1103	1105	1106	1109	1109	105
15°	1045	1046	1051	1055	1058	294
25°	939	942	952	965	971	432
35°	795	801	820	843	850	496
45°	634	641	666	690	700	488
55°	465	474	501	525	536	417
65°	301	312	340	362	372	299
75°	148	164	189	204	212	159
85°	32	38	41	39	38	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.9	1111.9	1111.9	1111.9	1111.9
2.5°	1109.0	1109.0	1111.9	1113.3	1114.8
5°	1103.1	1104.6	1106.0	1109.0	1109.0
7.5°	1094.4	1095.9	1097.3	1100.2	1100.2
10°	1081.3	1082.8	1085.7	1088.6	1088.6
12.5°	1065.4	1066.8	1069.7	1072.6	1075.5
15°	1045.0	1046.5	1050.8	1055.2	1058.1
17.5°	1021.7	1024.7	1030.5	1036.3	1039.2
20°	995.6	998.5	1005.8	1015.9	1018.8
22.5°	969.4	970.9	979.6	991.2	995.6
25°	938.9	941.8	952.0	965.1	970.9
27.5°	904.0	908.4	922.9	938.9	947.6
30°	870.6	873.5	889.5	909.8	917.1
32.5°	832.8	838.6	856.1	876.4	883.7
35°	795.0	800.8	819.7	843.0	850.2
37.5°	754.3	760.1	783.4	806.6	815.4
40°	712.2	720.9	744.1	768.9	776.1
42.5°	672.9	680.2	703.5	728.2	739.8
45°	633.7	641.0	665.7	690.4	700.5
47.5°	590.1	597.4	625.0	649.7	659.8
50°	549.4	556.7	584.3	609.0	617.7
52.5°	507.2	516.0	540.7	566.8	575.6
55°	465.1	473.8	501.4	524.7	536.3
57.5°	424.4	434.6	457.8	482.5	494.2
60°	385.2	392.4	418.6	441.8	450.6
62.5°	343.0	351.7	377.9	402.6	411.3
65°	300.9	312.5	340.1	361.9	372.1
67.5°	261.6	273.2	300.9	321.2	332.8
70°	223.8	235.5	263.1	282.0	292.1
72.5°	186.0	200.6	225.3	242.7	251.4
75°	148.2	164.2	188.9	203.5	212.2
77.5°	114.8	130.8	152.6	165.7	168.6
80°	82.8	98.8	114.8	120.6	122.1
82.5°	56.7	68.3	77.0	77.0	79.9
85°	32.0	37.8	40.7	39.2	37.8
87.5°	11.6	13.1	11.6	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)