

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: P229341

Luminaire Tested: **22ALNG-LD5-25-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36080)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ALNG-LD5-25-UNV-L830-CD1-U  
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS  
Light Source: (126)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2421.0 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.31  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

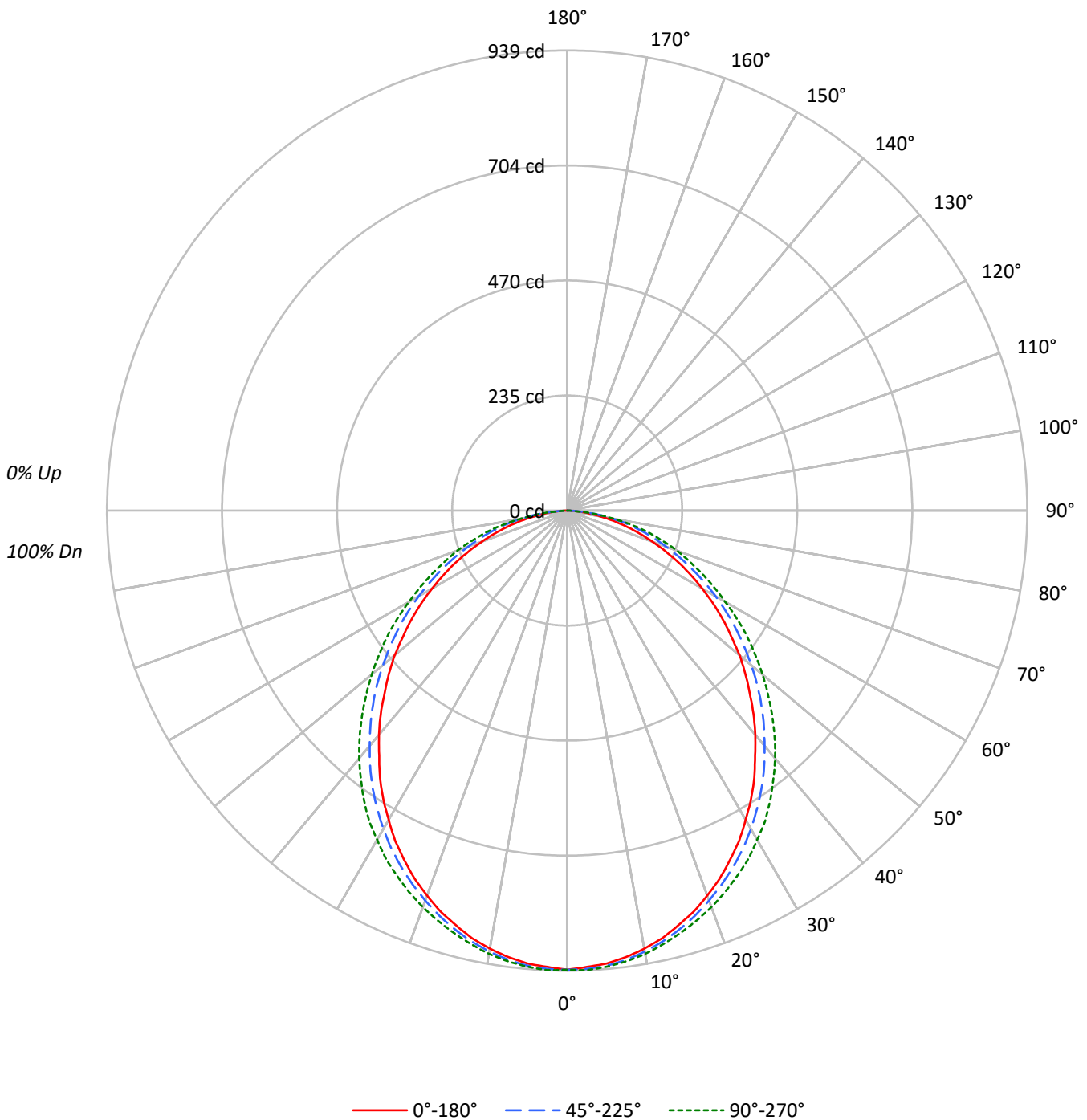
Input Watts (W): 20.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	79	97	89	83	78	86	81	76		83	78	74		80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	49	75	63	54	48	61	53	48		59	52	47		57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3001	3001	3001
5°	2983	2997	3004
10°	2952	2971	2987
15°	2905	2934	2959
20°	2849	2886	2934
25°	2779	2833	2904
30°	2694	2774	2868
35°	2603	2705	2824
40°	2497	2620	2761
45°	2385	2538	2681
50°	2288	2443	2594
55°	2167	2346	2504
60°	2037	2242	2388
65°	1899	2126	2295
70°	1726	2010	2229
75°	1533	1903	2112
80°	1273	1724	1754
85°	999	1157	1058



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.4	3.6
10°-20°	249.4	10.3
20°-30°	369.9	15.3
30°-40°	432.9	17.9
40°-50°	431.8	17.8
50°-60°	374.5	15.5
60°-70°	276.2	11.4
70°-80°	159.2	6.6
80°-90°	38.8	1.6
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°	707.7	29.2
0°-40°	1140.6	47.1
0°-60°	1946.8	80.4
0°-90°	2421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	928	929	932	934	934	88
15°	876	878	885	891	892	247
25°	786	790	802	817	822	362
35°	666	671	692	714	722	416
45°	527	536	560	583	592	407
55°	388	397	420	439	448	347
65°	251	262	280	294	303	248
75°	124	135	154	167	171	132
85°	27	32	32	31	29	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	937.1	937.1	937.1	937.1	937.1
2.5°	932.2	933.3	936.0	938.2	938.7
5°	927.8	928.9	932.2	933.8	934.4
7.5°	919.1	921.9	924.6	927.3	927.8
10°	907.7	910.4	913.7	917.0	918.6
12.5°	894.1	895.2	900.7	904.5	906.1
15°	876.2	878.4	884.9	891.4	892.5
17.5°	858.3	861.0	867.0	874.6	877.3
20°	836.0	838.7	846.8	856.6	861.0
22.5°	813.1	815.3	825.1	837.1	842.5
25°	786.5	789.8	801.7	817.0	821.8
27.5°	759.9	762.6	777.3	794.1	801.2
30°	728.4	734.3	750.1	769.1	775.6
32.5°	698.5	703.3	721.3	743.0	751.7
35°	665.8	670.7	691.9	713.7	722.4
37.5°	630.0	638.7	660.4	683.2	691.4
40°	597.4	605.5	626.7	650.6	660.4
42.5°	563.1	569.6	594.1	617.5	626.7
45°	526.7	535.9	560.4	582.7	591.9
47.5°	493.5	502.2	526.2	547.4	556.0
50°	459.3	467.4	490.3	513.1	520.7
52.5°	421.8	432.7	454.9	476.1	484.3
55°	388.1	397.3	420.2	439.2	448.4
57.5°	353.3	362.5	385.4	401.7	410.9
60°	318.0	329.9	350.0	366.9	372.9
62.5°	284.8	293.0	314.7	329.9	337.5
65°	250.6	262.0	280.5	294.1	302.8
67.5°	216.9	229.4	247.3	262.5	268.5
70°	184.3	196.8	214.7	228.8	238.1
72.5°	153.8	165.8	184.3	197.9	203.3
75°	123.9	134.8	153.8	167.4	170.7
77.5°	95.7	107.6	125.6	133.7	134.8
80°	69.0	81.0	93.5	97.8	95.1
82.5°	46.7	54.9	63.6	62.5	63.6
85°	27.2	32.1	31.5	31.0	28.8
87.5°	10.3	11.4	8.7	6.5	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)