

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: P229404

Luminaire Tested: **22ALNG-LD5-25-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229404  
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-LD5-25-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: 2309.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

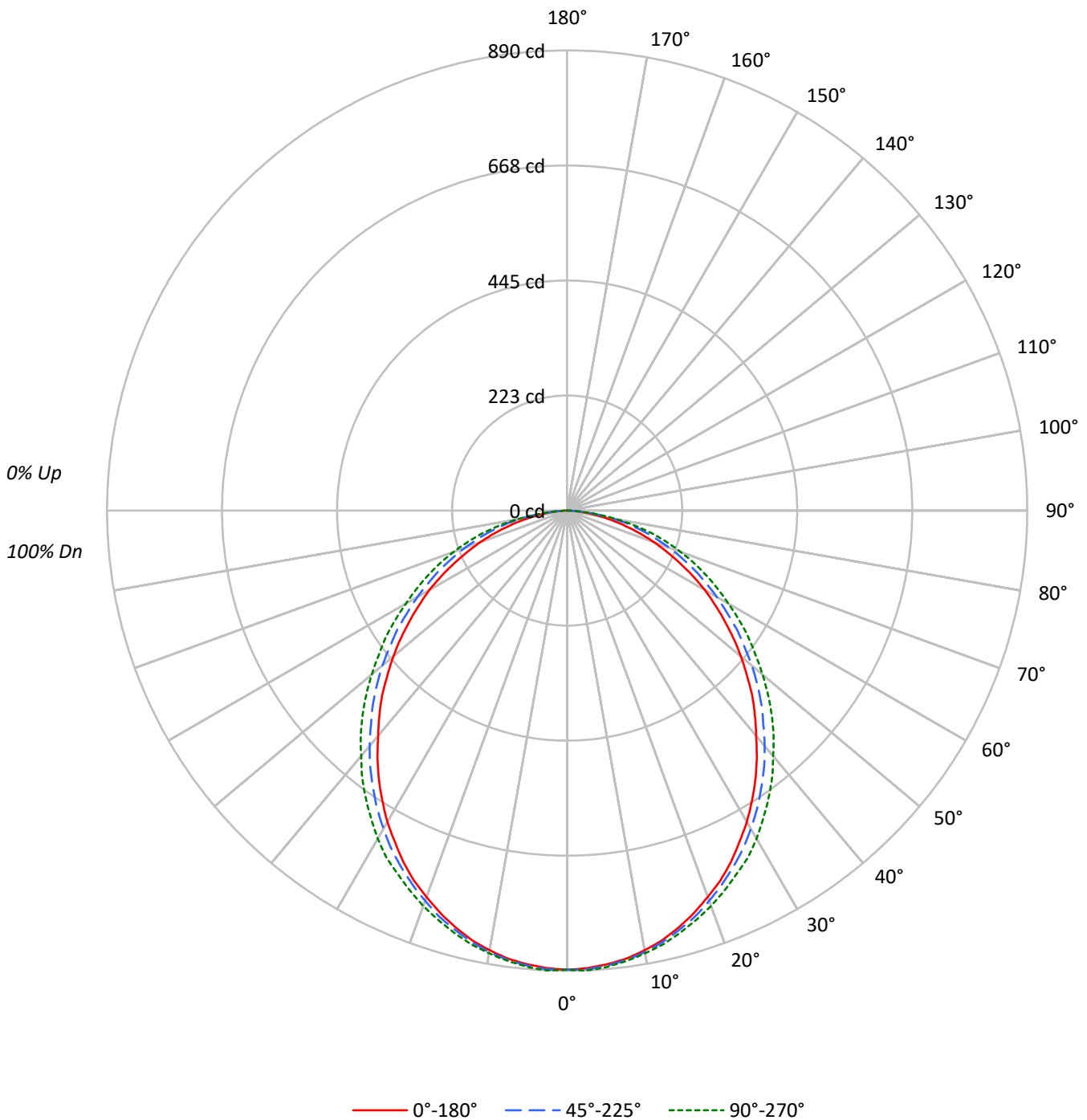
Input Watts (W): 20.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2844	2844	2844
5°	2832	2840	2847
10°	2808	2820	2828
15°	2767	2783	2802
20°	2710	2738	2773
25°	2650	2687	2740
30°	2571	2627	2709
35°	2483	2560	2655
40°	2378	2485	2592
45°	2292	2408	2534
50°	2186	2325	2458
55°	2074	2236	2391
60°	1970	2141	2305
65°	1821	2058	2252
70°	1674	1967	2184
75°	1465	1867	2097
80°	1221	1691	1798
85°	937	1194	1110



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	3.6
10°-20°	236.7	10.3
20°-30°	350.7	15.2
30°-40°	410.1	17.8
40°-50°	409.8	17.7
50°-60°	357.2	15.5
60°-70°	267.1	11.6
70°-80°	155.5	6.7
80°-90°	38.2	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°	671.2	29.1
0°-40°	1081.2	46.8
0°-60°	1848.3	80.0
0°-90°	2309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	881	882	883	886	886	84
15°	835	836	839	843	845	235
25°	750	752	760	771	775	345
35°	635	640	655	673	679	397
45°	506	512	532	551	560	389
55°	372	378	400	419	428	333
65°	240	250	272	289	297	239
75°	118	131	151	162	170	127
85°	26	30	32	31	30	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	888.0	888.0	888.0	888.0	888.0
2.5°	885.7	885.7	888.0	889.2	890.3
5°	881.1	882.2	883.4	885.7	885.7
7.5°	874.1	875.3	876.4	878.7	878.7
10°	863.6	864.8	867.1	869.5	869.5
12.5°	850.9	852.0	854.4	856.7	859.0
15°	834.6	835.8	839.3	842.8	845.1
17.5°	816.1	818.4	823.0	827.7	830.0
20°	795.2	797.5	803.3	811.4	813.7
22.5°	774.3	775.4	782.4	791.7	795.2
25°	749.9	752.2	760.3	770.8	775.4
27.5°	722.0	725.5	737.1	749.9	756.9
30°	695.3	697.7	710.4	726.7	732.5
32.5°	665.1	669.8	683.7	700.0	705.8
35°	635.0	639.6	654.7	673.3	679.1
37.5°	602.5	607.1	625.7	644.3	651.2
40°	568.8	575.8	594.3	614.1	619.9
42.5°	537.5	543.3	561.8	581.6	590.9
45°	506.1	511.9	531.7	551.4	559.5
47.5°	471.3	477.1	499.2	518.9	527.0
50°	438.8	444.6	466.6	486.4	493.3
52.5°	405.1	412.1	431.8	452.7	459.7
55°	371.5	378.4	400.5	419.1	428.3
57.5°	339.0	347.1	365.7	385.4	394.7
60°	307.6	313.4	334.3	352.9	359.9
62.5°	274.0	280.9	301.8	321.5	328.5
65°	240.3	249.6	271.6	289.0	297.2
67.5°	208.9	218.2	240.3	256.5	265.8
70°	178.8	188.1	210.1	225.2	233.3
72.5°	148.6	160.2	179.9	193.9	200.8
75°	118.4	131.2	150.9	162.5	169.5
77.5°	91.7	104.5	121.9	132.3	134.7
80°	66.2	78.9	91.7	96.3	97.5
82.5°	45.3	54.6	61.5	61.5	63.8
85°	25.5	30.2	32.5	31.3	30.2
87.5°	9.3	10.4	9.3	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)