

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: P229340

Luminaire Tested: **22ALNG-LD5-20-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229340
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-LD5-20-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: 2003.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

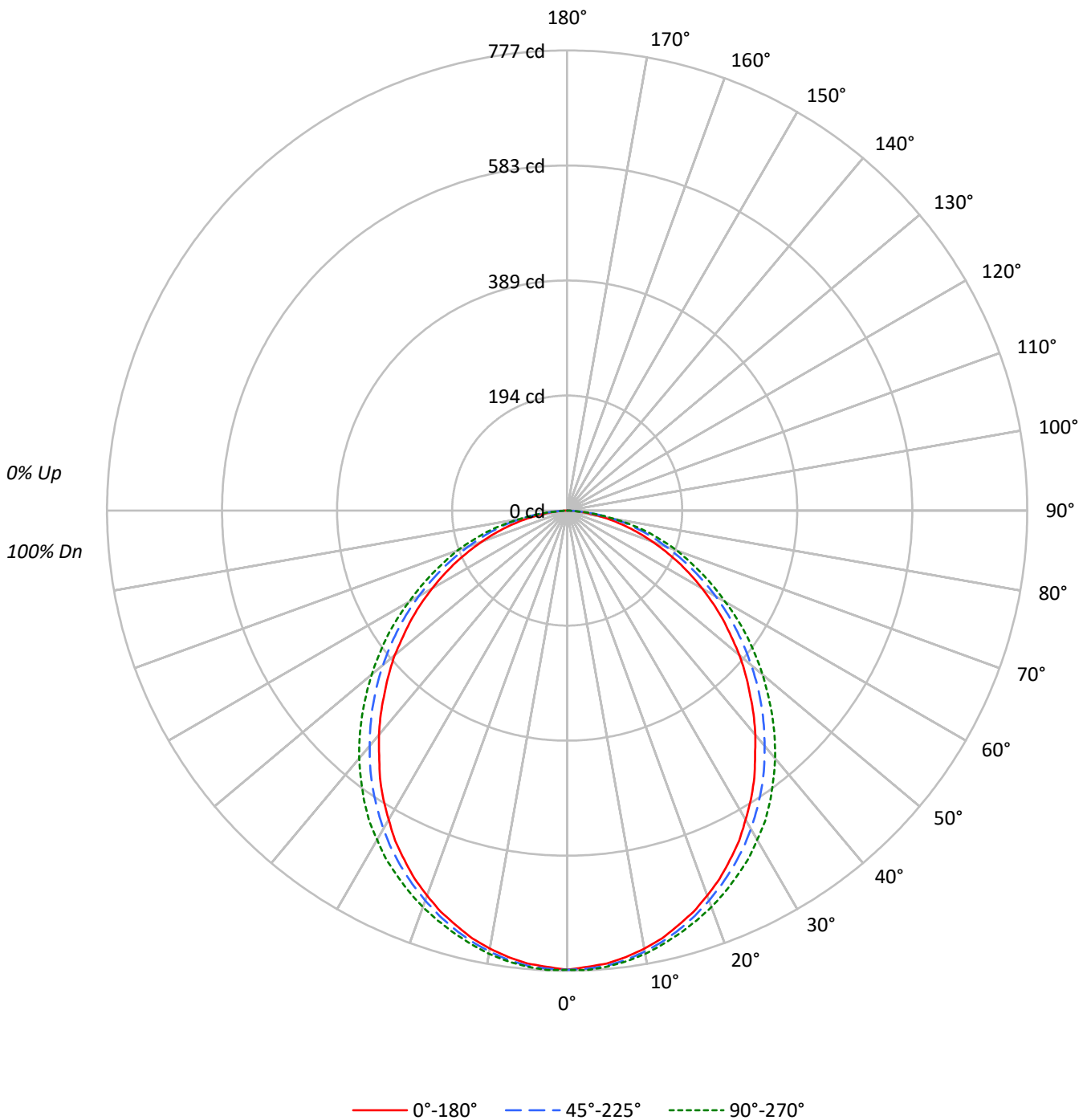
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2483	2483	2483
5°	2468	2479	2485
10°	2442	2458	2471
15°	2403	2427	2448
20°	2357	2388	2428
25°	2299	2344	2402
30°	2228	2295	2373
35°	2154	2238	2337
40°	2066	2168	2284
45°	1974	2100	2218
50°	1893	2021	2146
55°	1793	1941	2071
60°	1685	1855	1976
65°	1571	1758	1898
70°	1427	1663	1845
75°	1268	1575	1747
80°	1053	1426	1451
85°	827	959	875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.6
10°-20°	206.4	10.3
20°-30°	306.0	15.3
30°-40°	358.2	17.9
40°-50°	357.2	17.8
50°-60°	309.8	15.5
60°-70°	228.5	11.4
70°-80°	131.7	6.6
80°-90°	32.0	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°	585.5	29.2
0°-40°	943.6	47.1
0°-60°	1610.7	80.4
0°-90°	2003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	768	768	771	773	773	73
15°	725	727	732	738	738	204
25°	651	653	663	676	680	300
35°	551	555	572	590	598	344
45°	436	443	464	482	490	337
55°	321	329	348	363	371	287
65°	207	217	232	243	250	205
75°	102	112	127	138	141	109
85°	22	26	26	26	24	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.3	775.3	775.3	775.3	775.3
2.5°	771.2	772.1	774.4	776.2	776.6
5°	767.6	768.5	771.2	772.6	773.0
7.5°	760.4	762.7	764.9	767.2	767.6
10°	751.0	753.2	755.9	758.6	760.0
12.5°	739.8	740.7	745.2	748.3	749.6
15°	724.9	726.7	732.1	737.5	738.4
17.5°	710.1	712.3	717.3	723.6	725.8
20°	691.6	693.9	700.6	708.7	712.3
22.5°	672.8	674.5	682.6	692.5	697.0
25°	650.7	653.4	663.3	675.9	679.9
27.5°	628.7	630.9	643.1	657.0	662.9
30°	602.6	607.5	620.6	636.3	641.7
32.5°	577.9	581.9	596.8	614.7	621.9
35°	550.9	554.9	572.5	590.5	597.7
37.5°	521.2	528.4	546.4	565.3	572.0
40°	494.2	501.0	518.5	538.3	546.4
42.5°	465.9	471.3	491.5	510.9	518.5
45°	435.8	443.4	463.6	482.1	489.7
47.5°	408.3	415.5	435.3	452.8	460.0
50°	380.0	386.7	405.6	424.5	430.8
52.5°	349.0	358.0	376.4	393.9	400.7
55°	321.1	328.7	347.6	363.4	371.0
57.5°	292.3	299.9	318.8	332.3	340.0
60°	263.1	273.0	289.6	303.5	308.5
62.5°	235.6	242.4	260.4	273.0	279.3
65°	207.3	216.8	232.0	243.3	250.5
67.5°	179.4	189.8	204.6	217.2	222.2
70°	152.4	162.8	177.6	189.3	197.0
72.5°	127.3	137.2	152.4	163.7	168.2
75°	102.5	111.5	127.3	138.5	141.2
77.5°	79.1	89.0	103.9	110.6	111.5
80°	57.1	67.0	77.3	80.9	78.7
82.5°	38.7	45.4	52.6	51.7	52.6
85°	22.5	26.5	26.1	25.6	23.8
87.5°	8.5	9.4	7.2	5.4	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)