

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: P229367

Luminaire Tested: **24ALNG-LD5-80-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36066)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD5-80-UNV-L830-CD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (252)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7672.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

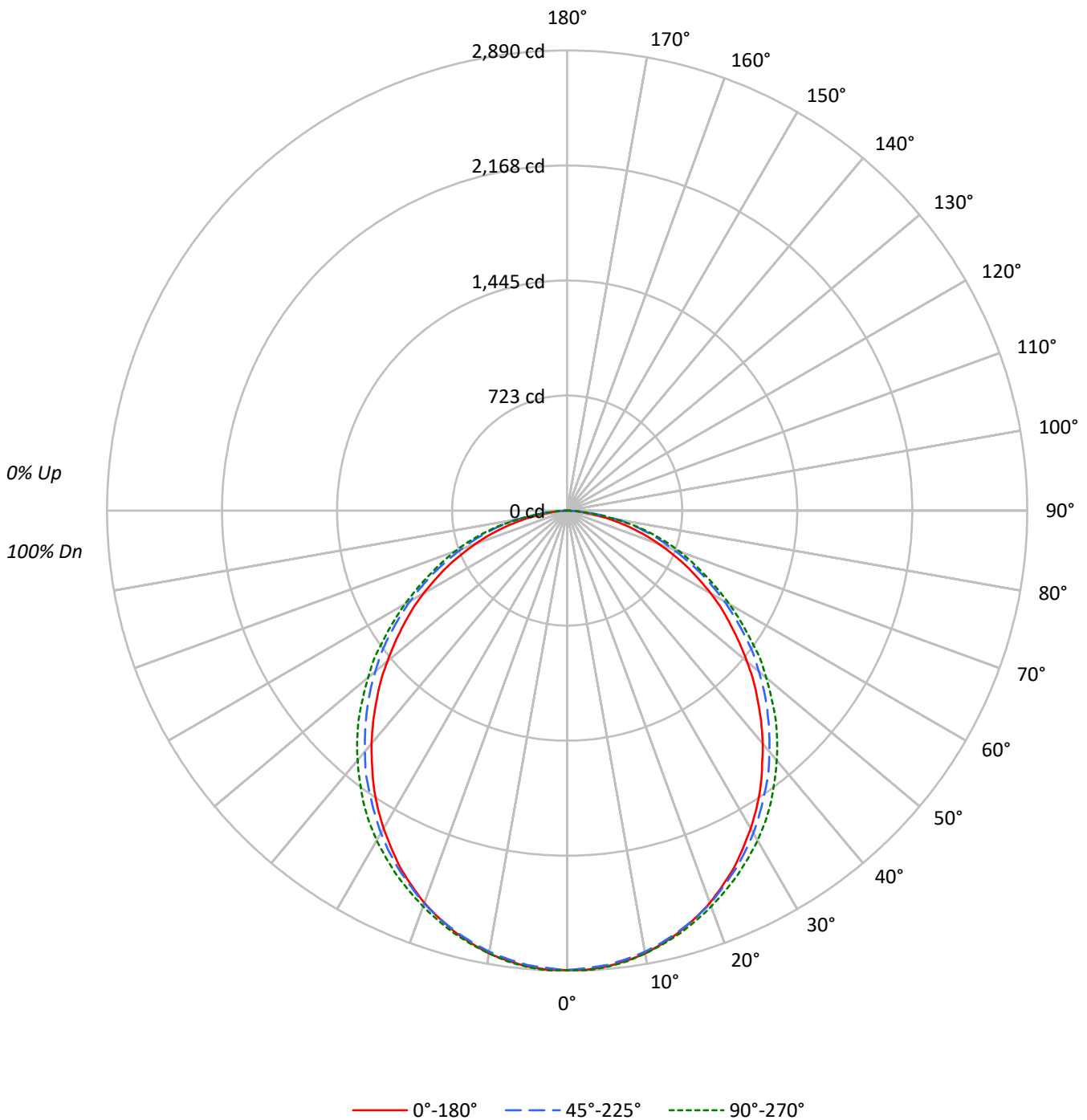
Input Watts (W): 65.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	63		70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54		65	59	54		63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4420	4420	4420
5°	4417	4404	4424
10°	4392	4376	4392
15°	4340	4330	4357
20°	4274	4281	4312
25°	4187	4212	4273
30°	4077	4137	4231
35°	3961	4044	4175
40°	3823	3950	4095
45°	3671	3851	4012
50°	3512	3745	3887
55°	3351	3629	3748
60°	3192	3492	3603
65°	2998	3337	3453
70°	2752	3162	3362
75°	2416	3033	3197
80°	1951	2832	2682
85°	1383	1868	1495



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	3.6
10°-20°	772.2	10.1
20°-30°	1150.6	15.0
30°-40°	1357.4	17.7
40°-50°	1370.4	17.9
50°-60°	1203.6	15.7
60°-70°	897.6	11.7
70°-80°	522.8	6.8
80°-90°	124.8	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°	2195.2	28.6
0°-40°	3552.6	46.3
0°-60°	6126.7	79.9
0°-90°	7672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2886	2886	2886	2886	2886	
5°	2873	2871	2865	2873	2878	273
15°	2737	2735	2731	2744	2748	771
25°	2478	2480	2492	2520	2529	1139
35°	2118	2131	2163	2214	2233	1323
45°	1695	1720	1778	1831	1852	1308
55°	1255	1293	1359	1402	1404	1124
65°	827	861	921	948	953	817
75°	408	457	512	538	540	435
85°	79	115	106	89	85	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2886.0	2886.0	2886.0	2886.0	2886.0
2.5°	2886.0	2883.9	2875.4	2883.9	2890.2
5°	2873.2	2871.1	2864.7	2873.2	2877.5
7.5°	2852.0	2849.8	2841.3	2854.1	2856.2
10°	2824.3	2820.1	2813.7	2822.2	2824.3
12.5°	2783.9	2781.8	2775.4	2786.0	2788.2
15°	2737.1	2735.0	2730.7	2743.5	2747.7
17.5°	2681.8	2683.9	2681.8	2696.7	2698.8
20°	2622.3	2624.4	2626.5	2643.5	2645.7
22.5°	2550.0	2552.1	2558.5	2581.9	2588.2
25°	2477.7	2479.8	2492.5	2520.2	2528.7
27.5°	2390.5	2399.0	2418.1	2452.1	2460.6
30°	2305.4	2313.9	2339.4	2379.8	2392.6
32.5°	2213.9	2222.4	2252.2	2296.9	2316.0
35°	2118.2	2131.0	2162.9	2213.9	2233.1
37.5°	2011.9	2035.3	2077.8	2126.7	2139.5
40°	1911.9	1929.0	1975.7	2035.3	2048.1
42.5°	1803.5	1826.9	1877.9	1937.5	1952.3
45°	1695.0	1720.5	1778.0	1831.1	1852.4
47.5°	1588.7	1616.3	1678.0	1733.3	1739.7
50°	1473.8	1507.9	1571.7	1624.8	1631.2
52.5°	1363.2	1403.6	1471.7	1514.2	1529.1
55°	1254.8	1293.1	1359.0	1401.5	1403.6
57.5°	1152.7	1184.6	1248.4	1284.6	1290.9
60°	1042.1	1074.0	1139.9	1169.7	1176.1
62.5°	931.5	965.5	1029.3	1059.1	1063.4
65°	827.3	861.3	920.9	948.5	952.8
67.5°	716.7	759.2	810.3	846.4	850.7
70°	614.6	657.2	706.1	742.2	750.7
72.5°	512.5	561.5	610.4	638.0	648.7
75°	408.3	457.2	512.5	538.1	540.2
77.5°	312.6	359.4	416.8	431.7	425.3
80°	221.2	272.2	321.1	319.0	304.1
82.5°	140.4	189.3	208.4	195.7	187.2
85°	78.7	114.8	106.3	89.3	85.1
87.5°	31.9	34.0	25.5	17.0	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)