

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: P229424

Luminaire Tested: **24ALNG-LD5-45-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36086)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD5-45-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4207.0 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

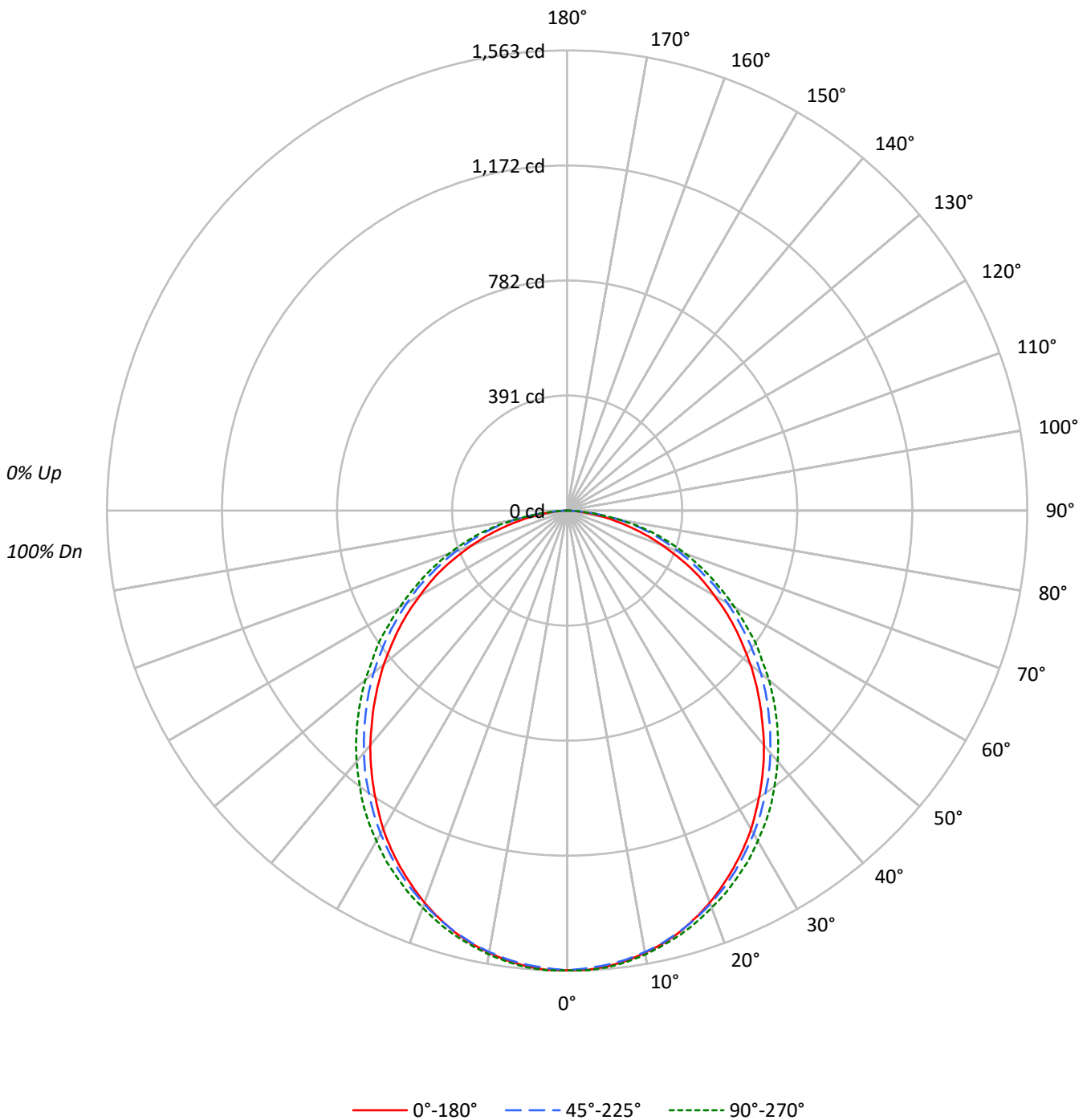
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2392	2392	2392
5°	2390	2382	2394
10°	2373	2368	2381
15°	2349	2346	2364
20°	2310	2317	2339
25°	2262	2283	2318
30°	2210	2242	2291
35°	2144	2194	2264
40°	2080	2146	2224
45°	2007	2094	2181
50°	1936	2045	2131
55°	1859	1985	2085
60°	1767	1924	2013
65°	1684	1849	1960
70°	1540	1782	1907
75°	1346	1723	1855
80°	1125	1615	1603
85°	780	1146	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	3.5
10°-20°	418.2	9.9
20°-30°	623.5	14.8
30°-40°	736.0	17.5
40°-50°	746.1	17.7
50°-60°	661.7	15.7
60°-70°	501.9	11.9
70°-80°	297.2	7.1
80°-90°	75.0	1.8
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°	1189.1	28.3
0°-40°	1925.1	45.8
0°-60°	3332.9	79.2
0°-90°	4207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1562	1562	1562	1562	1562	
5°	1555	1553	1549	1555	1557	147
15°	1481	1481	1480	1487	1491	417
25°	1338	1341	1351	1367	1372	616
35°	1147	1157	1173	1200	1211	717
45°	926	939	967	996	1007	715
55°	696	710	743	771	781	622
65°	465	478	510	532	541	458
75°	227	258	291	306	313	244
85°	44	67	65	60	58	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1561.5	1561.5	1561.5	1561.5	1561.5
2.5°	1561.5	1560.2	1556.0	1561.5	1562.9
5°	1554.6	1553.2	1549.1	1554.6	1557.4
7.5°	1542.1	1542.1	1538.0	1543.5	1546.3
10°	1525.5	1525.5	1522.7	1528.3	1531.0
12.5°	1506.1	1506.1	1503.3	1510.2	1511.6
15°	1481.1	1481.1	1479.7	1486.7	1490.8
17.5°	1450.6	1450.6	1453.4	1463.1	1464.5
20°	1417.3	1418.7	1421.5	1434.0	1435.3
22.5°	1378.5	1382.7	1388.2	1402.1	1406.2
25°	1338.3	1341.0	1350.8	1367.4	1371.6
27.5°	1295.3	1299.4	1309.1	1330.0	1336.9
30°	1249.5	1252.3	1267.5	1288.3	1295.3
32.5°	1198.2	1205.1	1221.8	1246.7	1255.1
35°	1146.9	1156.6	1173.2	1199.6	1210.7
37.5°	1094.2	1102.5	1126.1	1152.4	1160.8
40°	1040.1	1048.4	1073.4	1102.5	1112.2
42.5°	981.9	994.3	1020.7	1049.8	1060.9
45°	926.4	938.9	966.6	995.7	1006.8
47.5°	869.5	882.0	913.9	938.9	951.4
50°	812.7	827.9	858.4	884.8	894.5
52.5°	753.0	768.3	800.2	826.5	833.5
55°	696.2	710.0	743.3	771.1	780.8
57.5°	637.9	653.2	685.1	712.8	715.6
60°	576.9	593.6	628.2	650.4	657.3
62.5°	522.8	536.7	574.1	592.2	596.3
65°	464.6	478.4	510.3	532.5	540.9
67.5°	402.2	421.6	454.9	477.1	482.6
70°	343.9	367.5	398.0	421.6	425.8
72.5°	285.7	310.6	345.3	364.7	368.9
75°	227.4	257.9	291.2	306.5	313.4
77.5°	176.1	205.2	238.5	252.4	251.0
80°	127.6	156.7	183.1	183.1	181.7
82.5°	81.8	110.9	124.8	120.7	117.9
85°	44.4	66.6	65.2	59.6	58.2
87.5°	18.0	22.2	16.6	12.5	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)