

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: P238954

Luminaire Tested: **24ENA-LD2-74-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1708-234-34)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ENA-LD2-74-UNV-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7296.9 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.67' x L: 3.83' x H: 0')
CIE Type: Direct

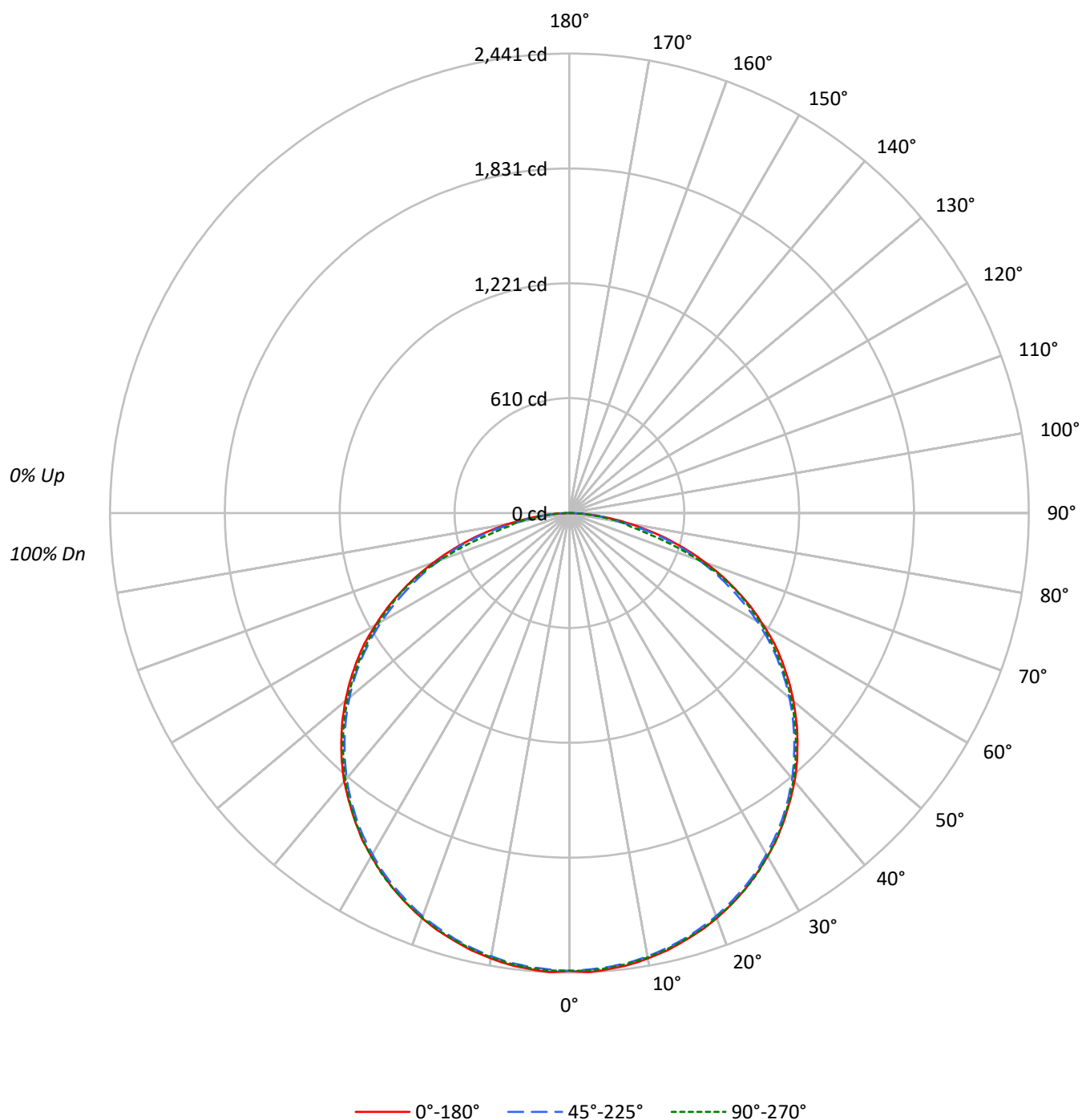
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83		
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69		
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58		
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49		
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42		
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37		
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29		
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26		
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4097	4097	4097
5°	4113	4092	4102
10°	4111	4090	4100
15°	4106	4087	4098
20°	4106	4087	4100
25°	4101	4081	4101
30°	4096	4072	4096
35°	4092	4064	4086
40°	4094	4051	4074
45°	4083	4025	4054
50°	4072	4000	4036
55°	4057	3959	3999
60°	4007	3884	3966
65°	3926	3762	3902
70°	3785	3627	3620
75°	3563	3404	2878
80°	3136	2662	2737
85°	2476	2327	2152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	3.2
10°-20°	662.4	9.1
20°-30°	1013.6	13.9
30°-40°	1239.0	17.0
40°-50°	1309.3	17.9
50°-60°	1213.1	16.6
60°-70°	950.4	13.0
70°-80°	537.3	7.4
80°-90°	141.5	1.9
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°	1906.4	26.1
0°-40°	3145.4	43.1
0°-60°	5667.7	77.7
0°-90°	7296.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7296.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2432	2432	2432	2432	2432	
5°	2432	2424	2420	2418	2426	231
15°	2354	2345	2343	2342	2349	665
25°	2206	2197	2195	2195	2206	1017
35°	1990	1980	1976	1976	1987	1246
45°	1714	1702	1689	1689	1702	1322
55°	1381	1366	1348	1351	1362	1234
65°	985	967	944	956	979	974
75°	547	532	523	466	442	576
85°	128	120	120	114	111	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2440.9	2430.2	2427.2	2424.1	2431.8
5°	2431.8	2424.1	2419.6	2418.0	2425.7
7.5°	2421.1	2411.9	2408.9	2405.8	2413.5
10°	2402.8	2393.6	2390.6	2389.1	2396.7
12.5°	2381.4	2370.8	2369.2	2367.7	2375.3
15°	2354.0	2344.9	2343.3	2341.8	2349.4
17.5°	2325.0	2315.9	2312.8	2311.3	2322.0
20°	2290.0	2280.8	2279.3	2277.8	2286.9
22.5°	2250.3	2241.2	2238.1	2239.7	2248.8
25°	2206.1	2197.0	2195.4	2195.4	2206.1
27.5°	2157.3	2148.2	2148.2	2148.2	2160.4
30°	2105.5	2097.9	2093.3	2094.8	2105.5
32.5°	2052.1	2039.9	2036.9	2038.4	2049.1
35°	1989.6	1980.5	1975.9	1975.9	1986.6
37.5°	1925.6	1916.4	1910.3	1910.3	1921.0
40°	1861.6	1847.8	1841.7	1838.7	1852.4
42.5°	1789.9	1779.2	1765.5	1765.5	1777.7
45°	1713.7	1701.5	1689.3	1689.3	1701.5
47.5°	1635.9	1623.7	1610.0	1610.0	1622.2
50°	1553.6	1541.4	1526.1	1526.1	1539.9
52.5°	1469.7	1456.0	1439.2	1437.7	1451.4
55°	1381.3	1366.1	1347.8	1350.8	1361.5
57.5°	1291.3	1271.5	1253.2	1253.2	1270.0
60°	1189.2	1172.4	1152.6	1155.7	1177.0
62.5°	1091.6	1070.3	1050.5	1058.1	1076.4
65°	984.9	966.6	943.7	955.9	978.8
67.5°	879.7	859.9	841.6	856.8	867.5
70°	768.4	750.1	736.4	736.4	734.9
72.5°	657.1	640.3	637.3	608.3	590.0
75°	547.3	532.1	522.9	466.5	442.1
77.5°	433.0	428.4	399.4	340.0	332.4
80°	323.2	326.3	274.4	276.0	282.1
82.5°	222.6	218.0	205.8	196.7	193.6
85°	128.1	120.4	120.4	114.3	111.3
87.5°	42.7	47.3	47.3	47.3	48.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)