

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: P238953

Luminaire Tested: **24ENA-LD2-74-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238953
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-L830-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7077.5 lumens
Efficiency: N/A
Efficacy: 111.3 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

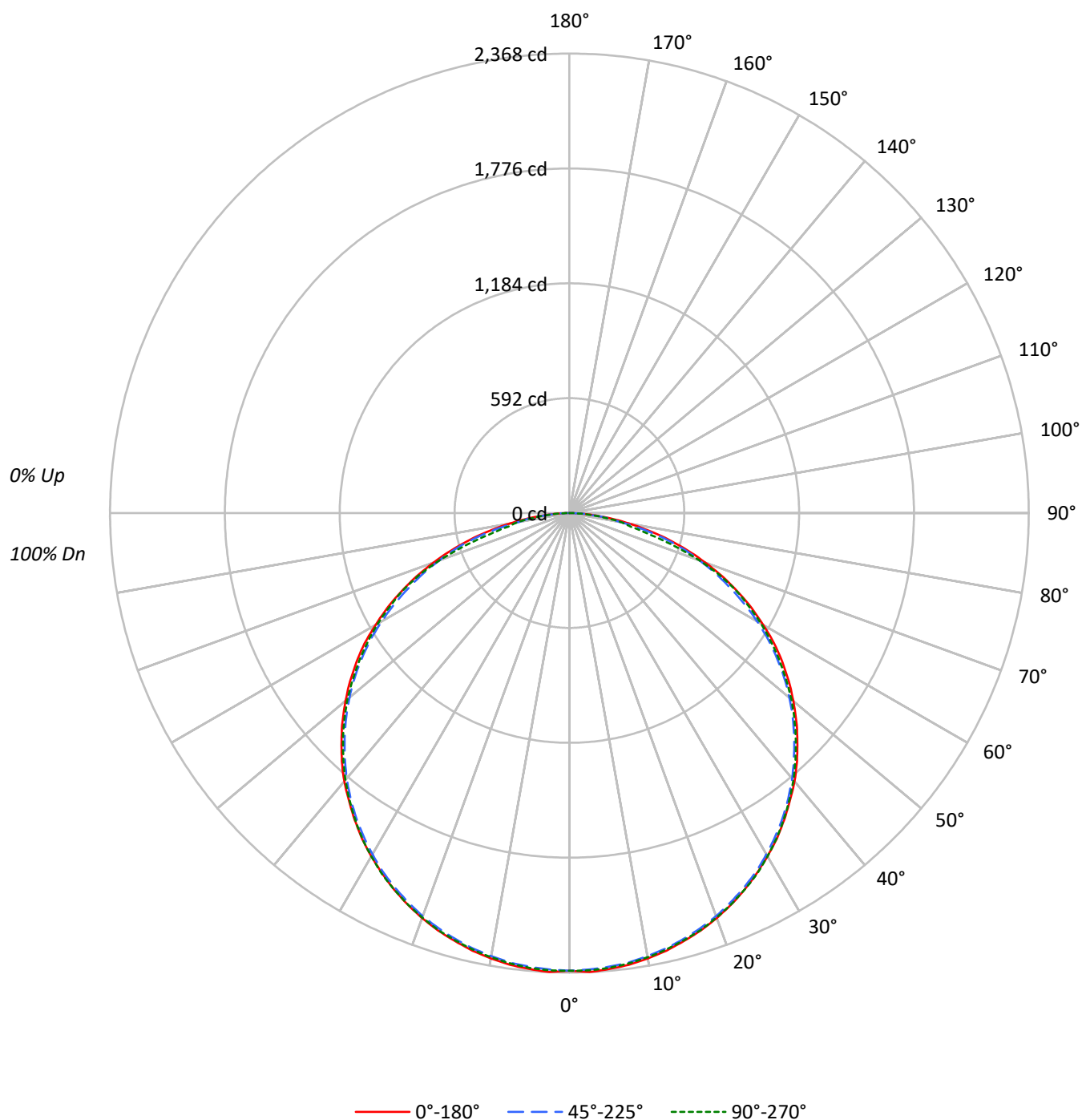
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3974	3974	3974
5°	3989	3969	3979
10°	3987	3967	3977
15°	3982	3964	3975
20°	3982	3964	3977
25°	3978	3958	3978
30°	3973	3950	3973
35°	3969	3942	3963
40°	3971	3929	3952
45°	3960	3904	3932
50°	3950	3880	3915
55°	3935	3840	3879
60°	3886	3767	3847
65°	3808	3649	3785
70°	3671	3518	3511
75°	3456	3302	2791
80°	3042	2583	2655
85°	2401	2258	2088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.4	3.2
10°-20°	642.5	9.1
20°-30°	983.2	13.9
30°-40°	1201.7	17.0
40°-50°	1269.9	17.9
50°-60°	1176.6	16.6
60°-70°	921.8	13.0
70°-80°	521.1	7.4
80°-90°	137.2	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°	1849.1	26.1
0°-40°	3050.8	43.1
0°-60°	5497.3	77.7
0°-90°	7077.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7077.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2359	2359	2359	2359	2359	
5°	2359	2351	2347	2345	2353	224
15°	2283	2274	2273	2271	2279	645
25°	2140	2131	2129	2129	2140	987
35°	1930	1921	1916	1916	1927	1208
45°	1662	1650	1638	1638	1650	1283
55°	1340	1325	1307	1310	1320	1196
65°	955	938	915	927	949	945
75°	531	516	507	452	429	558
85°	124	117	117	111	108	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2358.6	2358.6	2358.6	2358.6	2358.6
2.5°	2367.5	2357.2	2354.2	2351.3	2358.6
5°	2358.6	2351.3	2346.8	2345.3	2352.7
7.5°	2348.3	2339.4	2336.5	2333.5	2340.9
10°	2330.6	2321.7	2318.7	2317.2	2324.6
12.5°	2309.8	2299.5	2298.0	2296.5	2303.9
15°	2283.2	2274.4	2272.9	2271.4	2278.8
17.5°	2255.1	2246.3	2243.3	2241.8	2252.2
20°	2221.1	2212.2	2210.8	2209.3	2218.2
22.5°	2182.7	2173.8	2170.8	2172.3	2181.2
25°	2139.8	2130.9	2129.4	2129.4	2139.8
27.5°	2092.5	2083.6	2083.6	2083.6	2095.4
30°	2042.2	2034.8	2030.4	2031.8	2042.2
32.5°	1990.4	1978.6	1975.6	1977.1	1987.5
35°	1929.8	1920.9	1916.5	1916.5	1926.8
37.5°	1867.7	1858.8	1852.9	1852.9	1863.3
40°	1805.6	1792.3	1786.4	1783.4	1796.7
42.5°	1736.1	1725.7	1712.4	1712.4	1724.3
45°	1662.1	1650.3	1638.5	1638.5	1650.3
47.5°	1586.7	1574.9	1561.6	1561.6	1573.4
50°	1506.9	1495.0	1480.3	1480.3	1493.6
52.5°	1425.5	1412.2	1396.0	1394.5	1407.8
55°	1339.8	1325.0	1307.2	1310.2	1320.5
57.5°	1252.5	1233.3	1215.6	1215.6	1231.8
60°	1153.4	1137.2	1118.0	1120.9	1141.6
62.5°	1058.8	1038.1	1018.9	1026.3	1044.0
65°	955.3	937.5	915.4	927.2	949.4
67.5°	853.3	834.0	816.3	831.1	841.4
70°	745.3	727.6	714.2	714.2	712.8
72.5°	637.4	621.1	618.1	590.0	572.3
75°	530.9	516.1	507.2	452.5	428.8
77.5°	420.0	415.5	387.4	329.8	322.4
80°	313.5	316.5	266.2	267.7	273.6
82.5°	215.9	211.5	199.6	190.8	187.8
85°	124.2	116.8	116.8	110.9	108.0
87.5°	41.4	45.8	45.8	45.8	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)