

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: P238996

Luminaire Tested: **24EN-LD2-74-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238996
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: 24EN-LD2-74-UNV-L950-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)5000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7144.0 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

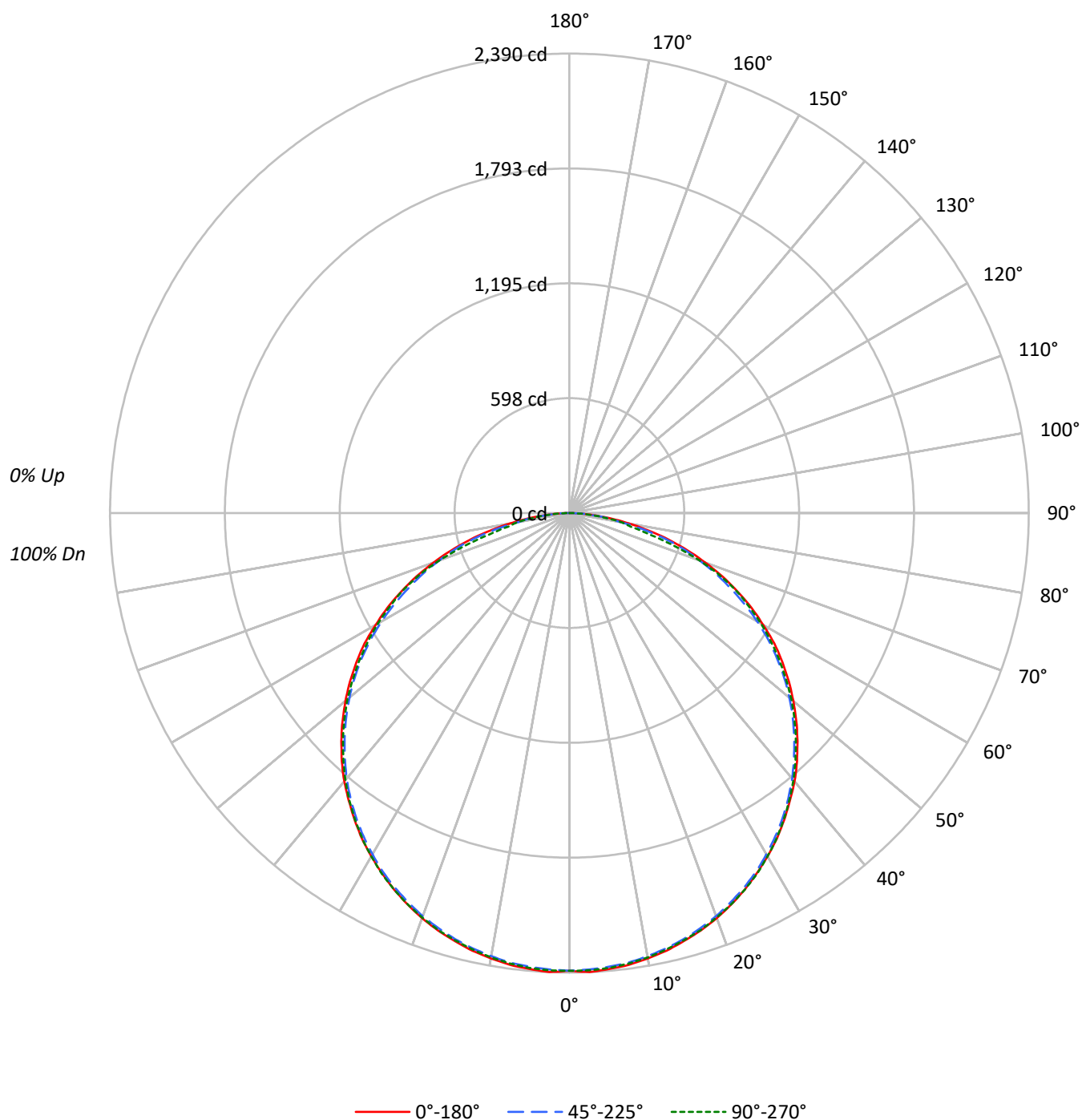
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3646	3646	3646
5°	3660	3642	3651
10°	3659	3640	3649
15°	3654	3638	3647
20°	3654	3637	3649
25°	3650	3632	3650
30°	3646	3625	3646
35°	3642	3617	3637
40°	3644	3605	3626
45°	3634	3582	3608
50°	3624	3560	3592
55°	3611	3523	3560
60°	3567	3457	3530
65°	3495	3349	3473
70°	3369	3229	3222
75°	3171	3030	2562
80°	2791	2370	2435
85°	2204	2072	1916



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.5	3.2
10°-20°	648.5	9.1
20°-30°	992.4	13.9
30°-40°	1213.0	17.0
40°-50°	1281.8	17.9
50°-60°	1187.7	16.6
60°-70°	930.5	13.0
70°-80°	526.0	7.4
80°-90°	138.5	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°	1866.5	26.1
0°-40°	3079.5	43.1
0°-60°	5549.0	77.7
0°-90°	7144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2381	2381	2381	2381	2381	
5°	2381	2373	2369	2367	2375	226
15°	2305	2296	2294	2293	2300	651
25°	2160	2151	2149	2149	2160	996
35°	1948	1939	1934	1934	1945	1220
45°	1678	1666	1654	1654	1666	1295
55°	1352	1337	1320	1322	1333	1208
65°	964	946	924	936	958	953
75°	536	521	512	457	433	564
85°	125	118	118	112	109	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2380.8	2380.8	2380.8	2380.8	2380.8
2.5°	2389.8	2379.3	2376.3	2373.3	2380.8
5°	2380.8	2373.3	2368.9	2367.4	2374.8
7.5°	2370.4	2361.4	2358.4	2355.4	2362.9
10°	2352.4	2343.5	2340.5	2339.0	2346.5
12.5°	2331.6	2321.1	2319.6	2318.1	2325.6
15°	2304.7	2295.7	2294.2	2292.7	2300.2
17.5°	2276.3	2267.4	2264.4	2262.9	2273.3
20°	2242.0	2233.0	2231.5	2230.0	2239.0
22.5°	2203.2	2194.2	2191.2	2192.7	2201.7
25°	2159.9	2150.9	2149.4	2149.4	2159.9
27.5°	2112.1	2103.2	2103.2	2103.2	2115.1
30°	2061.4	2053.9	2049.4	2050.9	2061.4
32.5°	2009.1	1997.2	1994.2	1995.7	2006.1
35°	1947.9	1939.0	1934.5	1934.5	1944.9
37.5°	1885.2	1876.3	1870.3	1870.3	1880.8
40°	1822.5	1809.1	1803.1	1800.2	1813.6
42.5°	1752.4	1741.9	1728.5	1728.5	1740.5
45°	1677.8	1665.8	1653.9	1653.9	1665.8
47.5°	1601.6	1589.7	1576.3	1576.3	1588.2
50°	1521.0	1509.1	1494.2	1494.2	1507.6
52.5°	1438.9	1425.5	1409.1	1407.6	1421.0
55°	1352.4	1337.4	1319.5	1322.5	1333.0
57.5°	1264.3	1244.9	1227.0	1227.0	1243.4
60°	1164.3	1147.9	1128.5	1131.4	1152.3
62.5°	1068.8	1047.9	1028.4	1035.9	1053.8
65°	964.3	946.4	924.0	935.9	958.3
67.5°	861.3	841.9	824.0	838.9	849.3
70°	752.3	734.4	721.0	721.0	719.5
72.5°	643.3	626.9	623.9	595.6	577.7
75°	535.9	520.9	512.0	456.8	432.9
77.5°	423.9	419.4	391.1	332.9	325.4
80°	316.4	319.4	268.7	270.2	276.1
82.5°	217.9	213.5	201.5	192.6	189.6
85°	125.4	117.9	117.9	112.0	109.0
87.5°	41.8	46.3	46.3	46.3	47.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)