

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: P238985

Luminaire Tested: **24EN-LD2-67-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238985
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-LD2-67-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5641.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

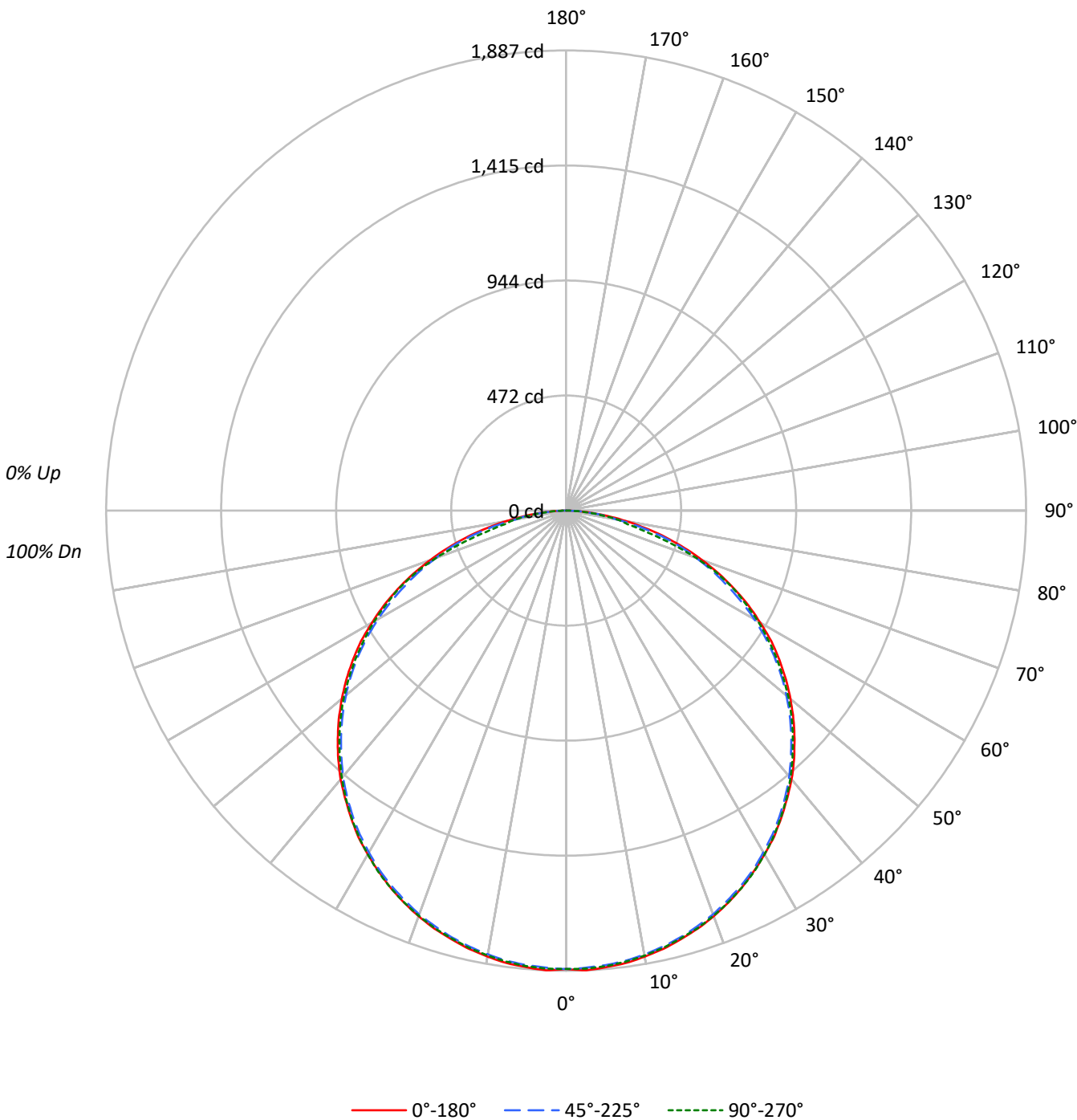
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2879	2879	2879
5°	2890	2876	2883
10°	2889	2874	2882
15°	2886	2873	2880
20°	2885	2872	2882
25°	2882	2868	2882
30°	2879	2862	2879
35°	2876	2856	2872
40°	2877	2847	2863
45°	2870	2829	2849
50°	2862	2811	2836
55°	2851	2782	2810
60°	2816	2730	2787
65°	2759	2644	2742
70°	2660	2549	2544
75°	2504	2393	2023
80°	2204	1872	1923
85°	1740	1636	1511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	3.2
10°-20°	512.1	9.1
20°-30°	783.6	13.9
30°-40°	957.8	17.0
40°-50°	1012.2	17.9
50°-60°	937.8	16.6
60°-70°	734.7	13.0
70°-80°	415.4	7.4
80°-90°	109.4	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°	1473.8	26.1
0°-40°	2431.6	43.1
0°-60°	4381.6	77.7
0°-90°	5641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5641.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1880	1874	1870	1869	1875	179
15°	1820	1813	1812	1810	1816	514
25°	1706	1698	1697	1697	1706	786
35°	1538	1531	1528	1528	1536	963
45°	1325	1315	1306	1306	1315	1022
55°	1068	1056	1042	1044	1052	954
65°	761	747	730	739	757	753
75°	423	411	404	361	342	445
85°	99	93	93	88	86	117
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1879.9	1879.9	1879.9	1879.9	1879.9
2.5°	1887.0	1878.8	1876.4	1874.0	1879.9
5°	1879.9	1874.0	1870.5	1869.3	1875.2
7.5°	1871.7	1864.6	1862.3	1859.9	1865.8
10°	1857.5	1850.5	1848.1	1846.9	1852.8
12.5°	1841.0	1832.8	1831.6	1830.4	1836.3
15°	1819.8	1812.7	1811.6	1810.4	1816.3
17.5°	1797.4	1790.4	1788.0	1786.8	1795.1
20°	1770.3	1763.2	1762.1	1760.9	1768.0
22.5°	1739.7	1732.6	1730.2	1731.4	1738.5
25°	1705.5	1698.4	1697.2	1697.2	1705.5
27.5°	1667.8	1660.7	1660.7	1660.7	1670.1
30°	1627.7	1621.8	1618.3	1619.5	1627.7
32.5°	1586.5	1577.0	1574.7	1575.8	1584.1
35°	1538.1	1531.1	1527.5	1527.5	1535.8
37.5°	1488.6	1481.6	1476.8	1476.8	1485.1
40°	1439.1	1428.5	1423.8	1421.4	1432.0
42.5°	1383.7	1375.5	1364.9	1364.9	1374.3
45°	1324.8	1315.4	1305.9	1305.9	1315.4
47.5°	1264.7	1255.3	1244.6	1244.6	1254.1
50°	1201.0	1191.6	1179.8	1179.8	1190.4
52.5°	1136.2	1125.6	1112.6	1111.5	1122.1
55°	1067.8	1056.1	1041.9	1044.3	1052.5
57.5°	998.3	983.0	968.8	968.8	981.8
60°	919.3	906.4	891.1	893.4	909.9
62.5°	843.9	827.4	812.1	818.0	832.1
65°	761.4	747.3	729.6	739.0	756.7
67.5°	680.1	664.8	650.6	662.4	670.6
70°	594.0	579.9	569.3	569.3	568.1
72.5°	508.0	495.0	492.7	470.3	456.1
75°	423.1	411.3	404.3	360.7	341.8
77.5°	334.7	331.2	308.8	262.8	256.9
80°	249.9	252.2	212.2	213.3	218.0
82.5°	172.1	168.5	159.1	152.0	149.7
85°	99.0	93.1	93.1	88.4	86.0
87.5°	33.0	36.5	36.5	36.5	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)