

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: P239025

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239025
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-LD2-67-UNV-L930-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5500.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

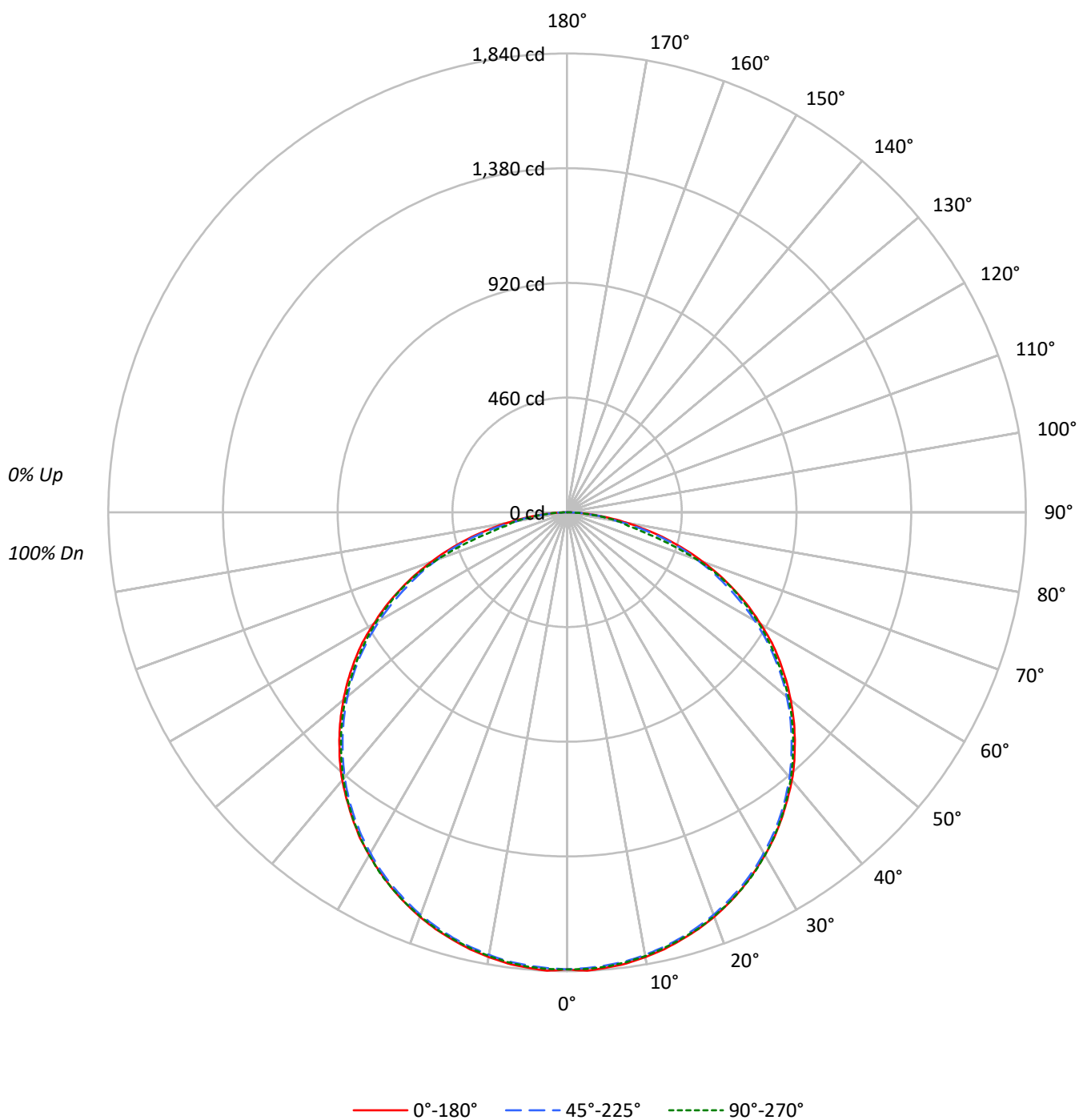
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3088	3088	3088
5°	3100	3084	3092
10°	3098	3083	3091
15°	3095	3081	3089
20°	3095	3080	3091
25°	3091	3076	3091
30°	3087	3069	3087
35°	3084	3063	3080
40°	3086	3053	3071
45°	3078	3034	3056
50°	3069	3015	3042
55°	3058	2984	3014
60°	3020	2927	2989
65°	2960	2836	2941
70°	2853	2734	2729
75°	2686	2566	2170
80°	2363	2007	2063
85°	1865	1755	1622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	3.2
10°-20°	499.3	9.1
20°-30°	764.0	13.9
30°-40°	933.9	17.0
40°-50°	986.8	17.9
50°-60°	914.4	16.6
60°-70°	716.4	13.0
70°-80°	405.0	7.4
80°-90°	106.6	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°	1437.0	26.1
0°-40°	2370.8	43.1
0°-60°	4272.0	77.7
0°-90°	5500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1833	1827	1824	1823	1828	174
15°	1774	1767	1766	1765	1771	501
25°	1663	1656	1655	1655	1663	767
35°	1500	1493	1489	1489	1497	939
45°	1292	1282	1273	1273	1282	997
55°	1041	1030	1016	1018	1026	930
65°	742	729	711	720	738	734
75°	413	401	394	352	333	434
85°	96	91	91	86	84	114
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1832.9	1832.9	1832.9	1832.9	1832.9
2.5°	1839.8	1831.8	1829.5	1827.2	1832.9
5°	1832.9	1827.2	1823.7	1822.6	1828.3
7.5°	1824.9	1818.0	1815.7	1813.4	1819.1
10°	1811.1	1804.2	1801.9	1800.8	1806.5
12.5°	1795.0	1787.0	1785.8	1784.7	1790.4
15°	1774.3	1767.4	1766.3	1765.1	1770.9
17.5°	1752.5	1745.6	1743.3	1742.1	1750.2
20°	1726.1	1719.2	1718.0	1716.9	1723.8
22.5°	1696.2	1689.3	1687.0	1688.1	1695.0
25°	1662.9	1656.0	1654.8	1654.8	1662.9
27.5°	1626.1	1619.2	1619.2	1619.2	1628.4
30°	1587.0	1581.3	1577.8	1579.0	1587.0
32.5°	1546.8	1537.6	1535.3	1536.4	1544.5
35°	1499.7	1492.8	1489.3	1489.3	1497.4
37.5°	1451.4	1444.5	1439.9	1439.9	1448.0
40°	1403.1	1392.8	1388.2	1385.9	1396.2
42.5°	1349.1	1341.1	1330.7	1330.7	1339.9
45°	1291.7	1282.5	1273.3	1273.3	1282.5
47.5°	1233.1	1223.9	1213.5	1213.5	1222.7
50°	1171.0	1161.8	1150.3	1150.3	1160.7
52.5°	1107.8	1097.5	1084.8	1083.7	1094.0
55°	1041.2	1029.7	1015.9	1018.2	1026.2
57.5°	973.4	958.4	944.6	944.6	957.3
60°	896.4	883.7	868.8	871.1	887.2
62.5°	822.8	806.7	791.8	797.5	811.3
65°	742.4	728.6	711.3	720.5	737.8
67.5°	663.1	648.1	634.3	645.8	653.9
70°	579.2	565.4	555.1	555.1	553.9
72.5°	495.3	482.7	480.4	458.5	444.7
75°	412.6	401.1	394.2	351.6	333.3
77.5°	326.4	322.9	301.1	256.3	250.5
80°	243.6	245.9	206.9	208.0	212.6
82.5°	167.8	164.3	155.1	148.2	145.9
85°	96.5	90.8	90.8	86.2	83.9
87.5°	32.2	35.6	35.6	35.6	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)