

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: P239027

Luminaire Tested: **24ENA-LD2-67-UNV-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239027
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-L940-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5911.1 lumens
Efficiency: N/A
Efficacy: 105.4 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

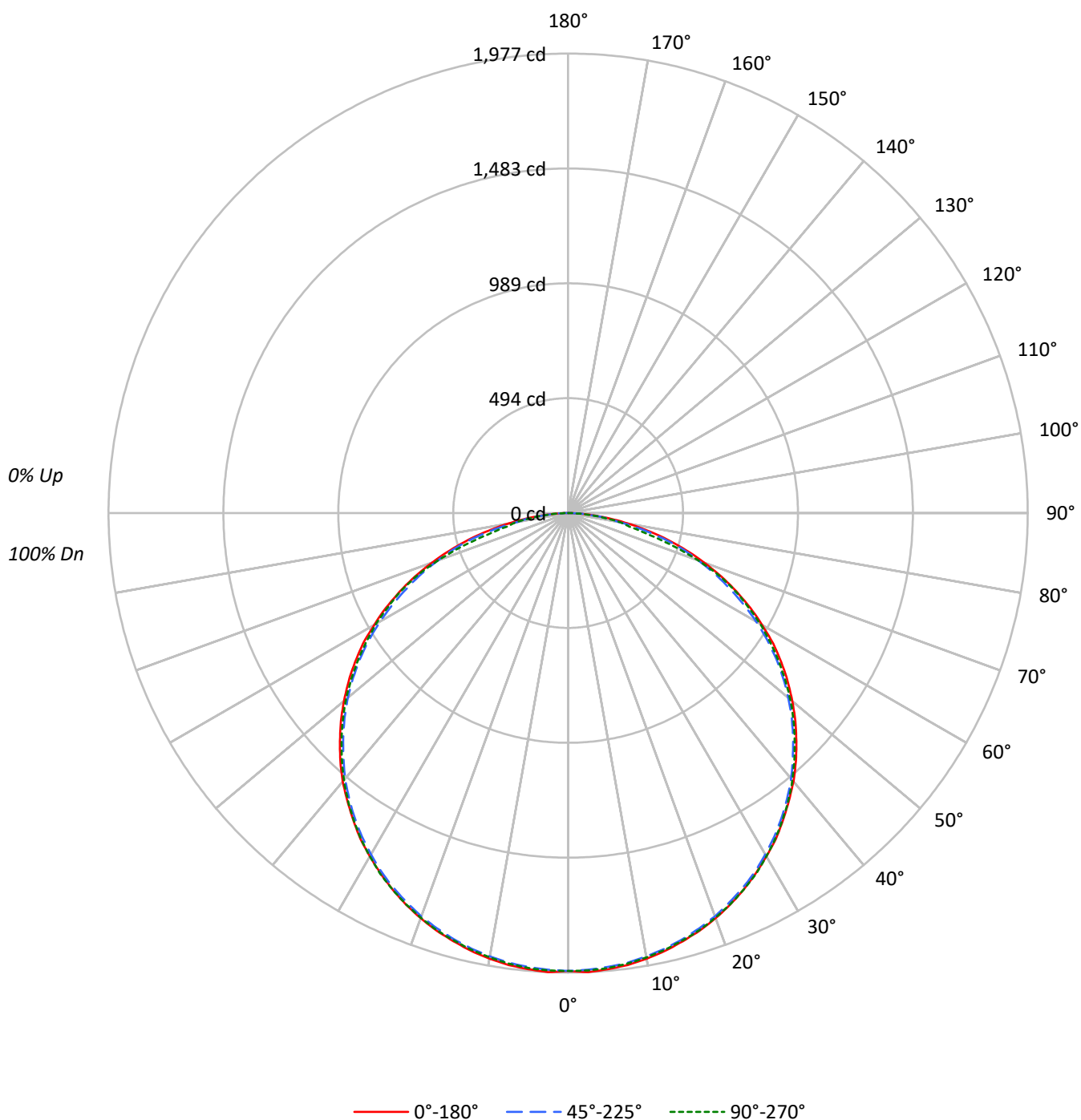
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	3319	3319	3319
5°	3332	3315	3323
10°	3330	3313	3321
15°	3326	3311	3320
20°	3326	3310	3322
25°	3322	3306	3322
30°	3318	3299	3318
35°	3315	3292	3310
40°	3317	3281	3300
45°	3308	3261	3284
50°	3299	3240	3270
55°	3287	3207	3240
60°	3246	3146	3213
65°	3181	3048	3161
70°	3066	2938	2932
75°	2886	2757	2332
80°	2540	2157	2217
85°	2005	1887	1744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	3.2
10°-20°	536.6	9.1
20°-30°	821.1	13.9
30°-40°	1003.7	17.0
40°-50°	1060.6	17.9
50°-60°	982.7	16.6
60°-70°	769.9	13.0
70°-80°	435.3	7.4
80°-90°	114.6	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°	1544.4	26.1
0°-40°	2548.0	43.1
0°-60°	4591.3	77.7
0°-90°	5911.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5911.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1970	1970	1970	1970	1970	
5°	1970	1964	1960	1959	1965	187
15°	1907	1900	1898	1897	1903	539
25°	1787	1780	1778	1778	1787	824
35°	1612	1604	1601	1601	1609	1009
45°	1388	1378	1368	1368	1378	1071
55°	1119	1107	1092	1094	1103	999
65°	798	783	764	774	793	789
75°	443	431	424	378	358	466
85°	104	98	98	93	90	122
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1969.9	1969.9	1969.9	1969.9	1969.9
2.5°	1977.3	1968.7	1966.2	1963.8	1969.9
5°	1969.9	1963.8	1960.1	1958.8	1965.0
7.5°	1961.3	1953.9	1951.4	1948.9	1955.1
10°	1946.5	1939.1	1936.6	1935.3	1941.5
12.5°	1929.2	1920.5	1919.3	1918.1	1924.2
15°	1906.9	1899.5	1898.3	1897.1	1903.2
17.5°	1883.5	1876.1	1873.6	1872.4	1881.0
20°	1855.1	1847.7	1846.4	1845.2	1852.6
22.5°	1823.0	1815.5	1813.1	1814.3	1821.7
25°	1787.1	1779.7	1778.5	1778.5	1787.1
27.5°	1747.6	1740.2	1740.2	1740.2	1750.1
30°	1705.6	1699.5	1695.7	1697.0	1705.6
32.5°	1662.4	1652.5	1650.0	1651.3	1659.9
35°	1611.8	1604.4	1600.6	1600.6	1609.3
37.5°	1559.9	1552.5	1547.5	1547.5	1556.2
40°	1508.0	1496.9	1492.0	1489.5	1500.6
42.5°	1450.0	1441.3	1430.2	1430.2	1440.1
45°	1388.2	1378.3	1368.5	1368.5	1378.3
47.5°	1325.2	1315.3	1304.2	1304.2	1314.1
50°	1258.5	1248.7	1236.3	1236.3	1247.4
52.5°	1190.6	1179.5	1165.9	1164.7	1175.8
55°	1119.0	1106.6	1091.8	1094.3	1102.9
57.5°	1046.1	1030.0	1015.2	1015.2	1028.8
60°	963.4	949.8	933.7	936.2	953.5
62.5°	884.3	867.0	851.0	857.1	872.0
65°	797.9	783.0	764.5	774.4	792.9
67.5°	712.6	696.6	681.8	694.1	702.8
70°	622.5	607.7	596.5	596.5	595.3
72.5°	532.3	518.7	516.3	492.8	478.0
75°	443.4	431.0	423.6	377.9	358.2
77.5°	350.8	347.1	323.6	275.4	269.2
80°	261.8	264.3	222.3	223.5	228.5
82.5°	180.3	176.6	166.7	159.3	156.9
85°	103.7	97.6	97.6	92.6	90.2
87.5°	34.6	38.3	38.3	38.3	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)