

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: P238993

Luminaire Tested: **24EN-LD2-74-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238993
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-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: 6271.7 lumens
Efficiency: N/A
Efficacy: 98.6 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

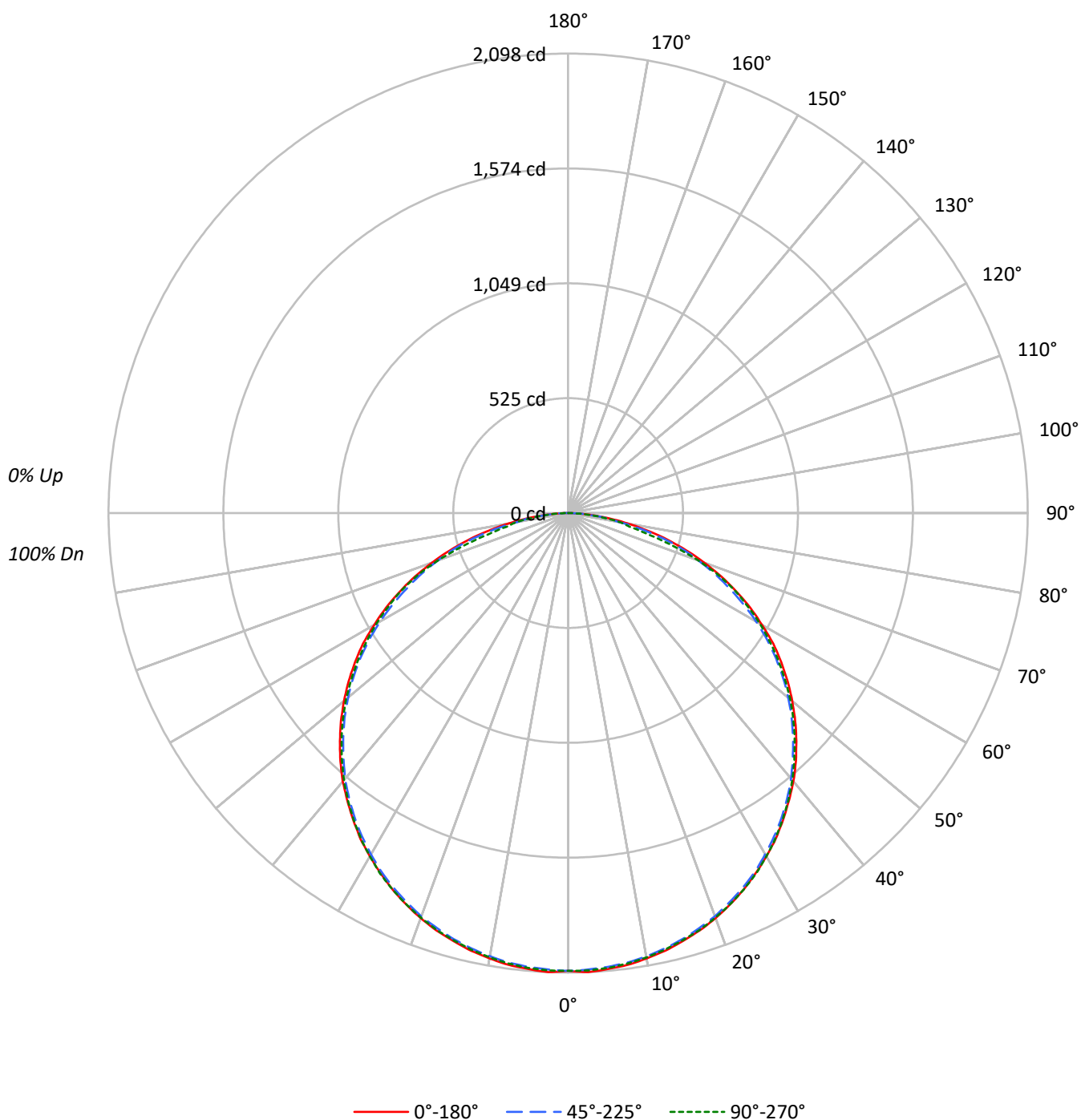
Input Watts (W): 63.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3201	3201	3201
5°	3213	3197	3205
10°	3212	3196	3204
15°	3208	3194	3202
20°	3208	3193	3204
25°	3205	3189	3205
30°	3201	3182	3201
35°	3197	3175	3193
40°	3199	3165	3183
45°	3190	3145	3168
50°	3182	3125	3154
55°	3170	3093	3125
60°	3131	3035	3099
65°	3068	2940	3049
70°	2958	2834	2828
75°	2784	2660	2249
80°	2450	2081	2138
85°	1935	1819	1682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.0	3.2
10°-20°	569.4	9.1
20°-30°	871.2	13.9
30°-40°	1064.9	17.0
40°-50°	1125.3	17.9
50°-60°	1042.6	16.6
60°-70°	816.9	13.0
70°-80°	461.8	7.4
80°-90°	121.6	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°	1638.6	26.1
0°-40°	2703.5	43.1
0°-60°	4871.5	77.7
0°-90°	6271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6271.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2090	2084	2080	2078	2085	199
15°	2023	2015	2014	2013	2019	572
25°	1896	1888	1887	1887	1896	874
35°	1710	1702	1698	1698	1708	1071
45°	1473	1462	1452	1452	1462	1137
55°	1187	1174	1158	1161	1170	1060
65°	846	831	811	822	841	837
75°	470	457	450	401	380	495
85°	110	104	104	98	96	130
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2090.1	2090.1	2090.1	2090.1	2090.1
2.5°	2098.0	2088.8	2086.2	2083.6	2090.1
5°	2090.1	2083.6	2079.6	2078.3	2084.9
7.5°	2081.0	2073.1	2070.5	2067.8	2074.4
10°	2065.2	2057.4	2054.7	2053.4	2060.0
12.5°	2046.9	2037.7	2036.4	2035.1	2041.6
15°	2023.3	2015.4	2014.1	2012.8	2019.4
17.5°	1998.4	1990.5	1987.9	1986.6	1995.8
20°	1968.3	1960.4	1959.1	1957.8	1965.6
22.5°	1934.2	1926.3	1923.7	1925.0	1932.9
25°	1896.2	1888.3	1887.0	1887.0	1896.2
27.5°	1854.2	1846.4	1846.4	1846.4	1856.9
30°	1809.7	1803.1	1799.2	1800.5	1809.7
32.5°	1763.8	1753.3	1750.7	1752.0	1761.2
35°	1710.1	1702.2	1698.3	1698.3	1707.5
37.5°	1655.1	1647.2	1642.0	1642.0	1651.1
40°	1600.0	1588.2	1583.0	1580.4	1592.2
42.5°	1538.4	1529.3	1517.5	1517.5	1528.0
45°	1472.9	1462.4	1451.9	1451.9	1462.4
47.5°	1406.1	1395.6	1383.8	1383.8	1394.3
50°	1335.3	1324.8	1311.7	1311.7	1323.5
52.5°	1263.2	1251.5	1237.0	1235.7	1247.5
55°	1187.2	1174.1	1158.4	1161.0	1170.2
57.5°	1109.9	1092.9	1077.2	1077.2	1091.6
60°	1022.1	1007.7	990.7	993.3	1011.6
62.5°	938.3	919.9	902.9	909.4	925.2
65°	846.5	830.8	811.2	821.6	841.3
67.5°	756.1	739.1	723.4	736.5	745.6
70°	660.5	644.7	632.9	632.9	631.6
72.5°	564.8	550.4	547.8	522.9	507.1
75°	470.4	457.3	449.5	401.0	380.0
77.5°	372.2	368.2	343.3	292.2	285.7
80°	277.8	280.4	235.9	237.2	242.4
82.5°	191.3	187.4	176.9	169.0	166.4
85°	110.1	103.5	103.5	98.3	95.7
87.5°	36.7	40.6	40.6	40.6	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)