

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: P238988

Luminaire Tested: **24EN-LD2-67-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238988
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-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: 6425.1 lumens
Efficiency: N/A
Efficacy: 114.5 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

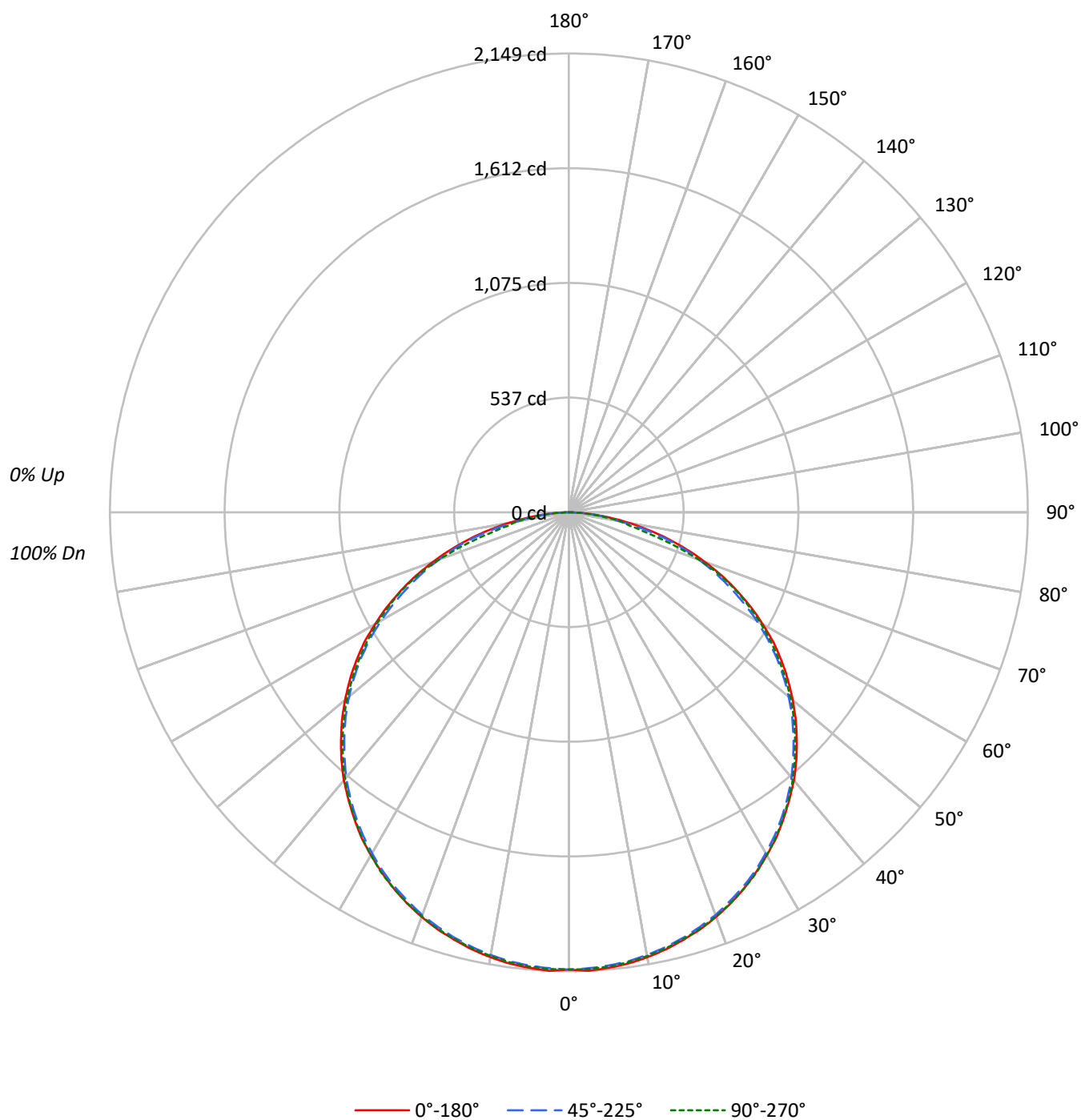
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3280	3280	3280
5°	3292	3276	3284
10°	3290	3274	3282
15°	3287	3272	3280
20°	3287	3271	3282
25°	3283	3267	3283
30°	3279	3260	3279
35°	3276	3253	3271
40°	3277	3242	3261
45°	3268	3222	3245
50°	3260	3202	3231
55°	3248	3169	3201
60°	3208	3109	3175
65°	3143	3012	3124
70°	3030	2904	2898
75°	2852	2725	2304
80°	2510	2131	2191
85°	1982	1865	1722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	3.2
10°-20°	583.3	9.1
20°-30°	892.5	13.9
30°-40°	1090.9	17.0
40°-50°	1152.8	17.9
50°-60°	1068.1	16.6
60°-70°	836.8	13.0
70°-80°	473.1	7.4
80°-90°	124.6	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°	1678.6	26.1
0°-40°	2769.6	43.1
0°-60°	4990.5	77.7
0°-90°	6425.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6425.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2141	2141	2141	2141	2141	
5°	2141	2134	2130	2129	2136	204
15°	2073	2065	2063	2062	2069	586
25°	1942	1934	1933	1933	1942	896
35°	1752	1744	1740	1740	1749	1097
45°	1509	1498	1487	1487	1498	1164
55°	1216	1203	1187	1189	1199	1086
65°	867	851	831	842	862	857
75°	482	468	460	411	389	507
85°	113	106	106	101	98	133
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2141.2	2141.2	2141.2	2141.2	2141.2
2.5°	2149.3	2139.9	2137.2	2134.5	2141.2
5°	2141.2	2134.5	2130.5	2129.1	2135.8
7.5°	2131.8	2123.8	2121.1	2118.4	2125.1
10°	2115.7	2107.6	2105.0	2103.6	2110.3
12.5°	2096.9	2087.5	2086.2	2084.8	2091.5
15°	2072.7	2064.7	2063.3	2062.0	2068.7
17.5°	2047.2	2039.2	2036.5	2035.2	2044.6
20°	2016.4	2008.3	2007.0	2005.6	2013.7
22.5°	1981.5	1973.4	1970.7	1972.1	1980.1
25°	1942.5	1934.5	1933.1	1933.1	1942.5
27.5°	1899.6	1891.5	1891.5	1891.5	1902.3
30°	1853.9	1847.2	1843.2	1844.5	1853.9
32.5°	1806.9	1796.2	1793.5	1794.9	1804.3
35°	1751.9	1743.8	1739.8	1739.8	1749.2
37.5°	1695.5	1687.5	1682.1	1682.1	1691.5
40°	1639.1	1627.1	1621.7	1619.0	1631.1
42.5°	1576.0	1566.6	1554.6	1554.6	1565.3
45°	1508.9	1498.2	1487.4	1487.4	1498.2
47.5°	1440.4	1429.7	1417.6	1417.6	1428.4
50°	1368.0	1357.2	1343.8	1343.8	1355.9
52.5°	1294.1	1282.0	1267.3	1265.9	1278.0
55°	1216.3	1202.8	1186.7	1189.4	1198.8
57.5°	1137.1	1119.6	1103.5	1103.5	1118.3
60°	1047.1	1032.3	1014.9	1017.6	1036.4
62.5°	961.2	942.4	924.9	931.7	947.8
65°	867.2	851.1	831.0	841.7	861.9
67.5°	774.6	757.1	741.0	754.5	763.9
70°	676.6	660.5	648.4	648.4	647.1
72.5°	578.6	563.8	561.1	535.6	519.5
75°	481.9	468.5	460.5	410.8	389.3
77.5°	381.3	377.2	351.7	299.4	292.7
80°	284.6	287.3	241.6	243.0	248.4
82.5°	196.0	192.0	181.2	173.2	170.5
85°	112.8	106.1	106.1	100.7	98.0
87.5°	37.6	41.6	41.6	41.6	43.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)