

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: P238906

Luminaire Tested: **24EN-LD2-67-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238906
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-L835-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6731.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

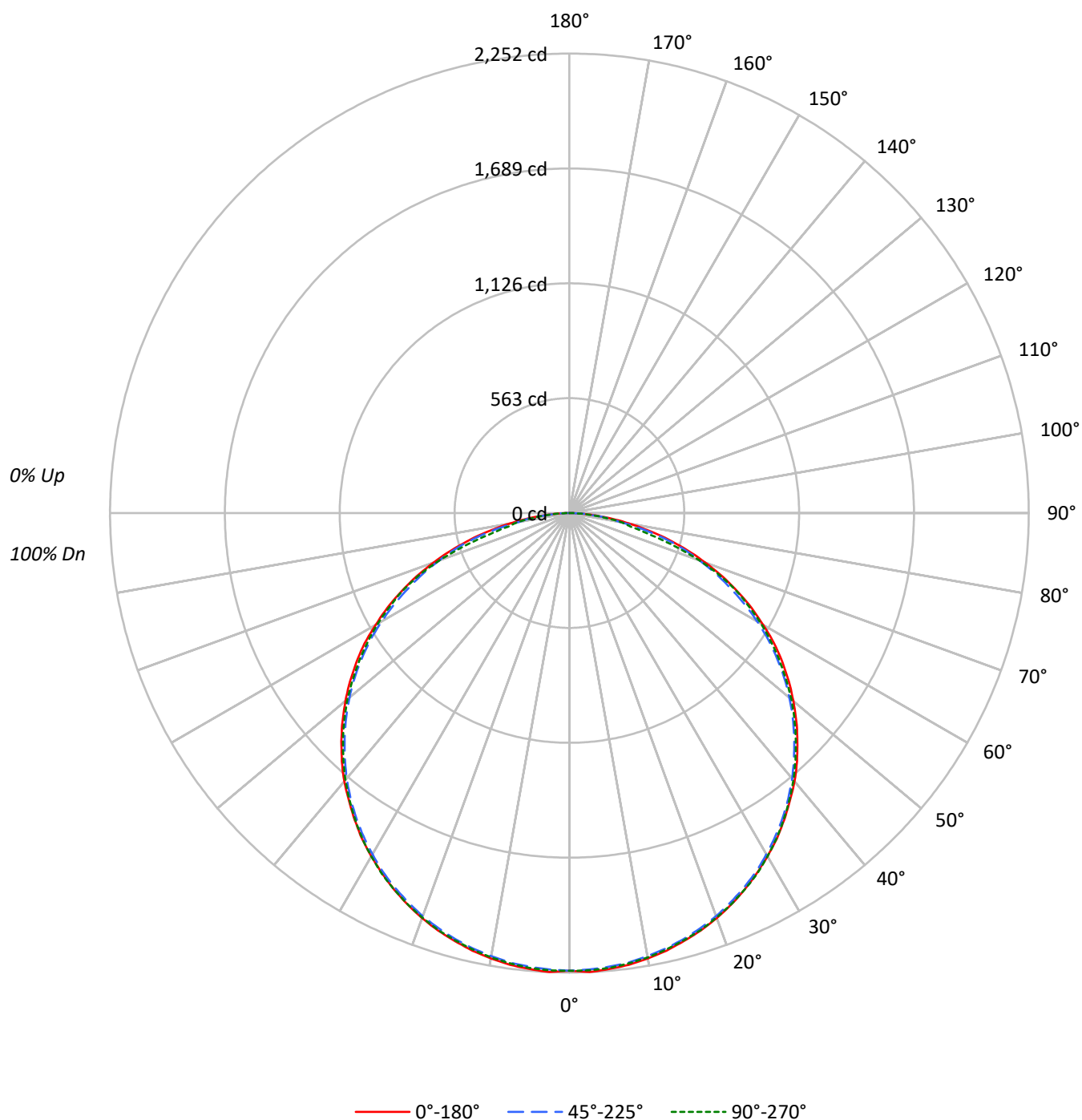
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3436	3436	3436
5°	3449	3431	3440
10°	3447	3430	3438
15°	3443	3428	3436
20°	3443	3427	3438
25°	3439	3423	3439
30°	3435	3415	3435
35°	3432	3408	3426
40°	3433	3397	3416
45°	3424	3375	3400
50°	3415	3354	3385
55°	3403	3320	3354
60°	3360	3257	3326
65°	3293	3155	3272
70°	3174	3042	3036
75°	2988	2855	2413
80°	2630	2232	2295
85°	2075	1952	1805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.5	3.2
10°-20°	611.1	9.1
20°-30°	935.0	13.9
30°-40°	1142.9	17.0
40°-50°	1207.7	17.9
50°-60°	1119.0	16.6
60°-70°	876.7	13.0
70°-80°	495.6	7.4
80°-90°	130.5	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°	1758.6	26.1
0°-40°	2901.5	43.1
0°-60°	5228.2	77.7
0°-90°	6731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2243	2243	2243	2243	2243	
5°	2243	2236	2232	2230	2238	213
15°	2171	2163	2162	2160	2167	613
25°	2035	2027	2025	2025	2035	938
35°	1835	1827	1823	1823	1832	1149
45°	1581	1570	1558	1558	1570	1220
55°	1274	1260	1243	1246	1256	1138
65°	908	892	870	882	903	898
75°	505	491	482	430	408	531
85°	118	111	111	106	103	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2243.2	2243.2	2243.2	2243.2	2243.2
2.5°	2251.6	2241.8	2238.9	2236.1	2243.2
5°	2243.2	2236.1	2231.9	2230.5	2237.5
7.5°	2233.3	2224.9	2222.1	2219.3	2226.3
10°	2216.4	2208.0	2205.2	2203.8	2210.8
12.5°	2196.8	2186.9	2185.5	2184.1	2191.1
15°	2171.4	2163.0	2161.6	2160.2	2167.2
17.5°	2144.7	2136.3	2133.5	2132.1	2141.9
20°	2112.4	2103.9	2102.5	2101.1	2109.6
22.5°	2075.8	2067.4	2064.6	2066.0	2074.4
25°	2035.0	2026.6	2025.2	2025.2	2035.0
27.5°	1990.0	1981.6	1981.6	1981.6	1992.8
30°	1942.2	1935.2	1931.0	1932.4	1942.2
32.5°	1893.0	1881.7	1878.9	1880.3	1890.2
35°	1835.3	1826.9	1822.7	1822.7	1832.5
37.5°	1776.2	1767.8	1762.2	1762.2	1772.0
40°	1717.2	1704.5	1698.9	1696.1	1708.7
42.5°	1651.1	1641.2	1628.6	1628.6	1639.8
45°	1580.8	1569.5	1558.3	1558.3	1569.5
47.5°	1509.0	1497.8	1485.1	1485.1	1496.4
50°	1433.1	1421.8	1407.8	1407.8	1420.4
52.5°	1355.7	1343.1	1327.6	1326.2	1338.9
55°	1274.2	1260.1	1243.2	1246.0	1255.9
57.5°	1191.2	1172.9	1156.0	1156.0	1171.5
60°	1097.0	1081.5	1063.2	1066.0	1085.7
62.5°	1007.0	987.3	969.0	976.0	992.9
65°	908.5	891.6	870.5	881.8	902.9
67.5°	811.5	793.2	776.3	790.4	800.2
70°	708.8	691.9	679.3	679.3	677.9
72.5°	606.1	590.7	587.9	561.1	544.3
75°	504.9	490.8	482.4	430.4	407.8
77.5°	399.4	395.2	368.5	313.6	306.6
80°	298.2	301.0	253.1	254.6	260.2
82.5°	205.3	201.1	189.9	181.4	178.6
85°	118.1	111.1	111.1	105.5	102.7
87.5°	39.4	43.6	43.6	43.6	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)