

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: P238907

Luminaire Tested: **24EN-LD2-67-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238907
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-L840-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6866.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

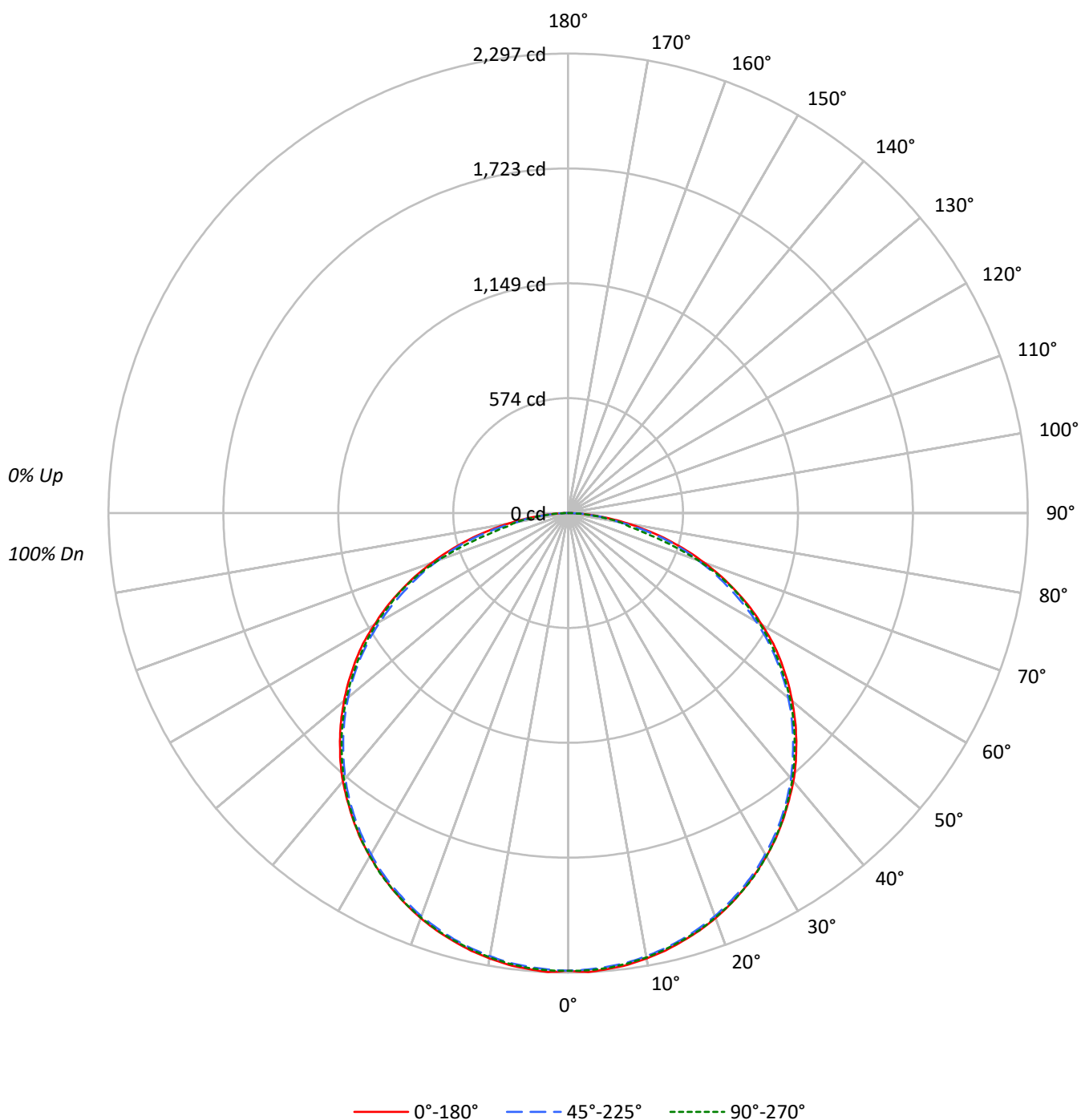
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3505	3505	3505
5°	3518	3500	3509
10°	3516	3498	3507
15°	3512	3496	3505
20°	3512	3496	3507
25°	3508	3491	3508
30°	3504	3484	3504
35°	3500	3476	3495
40°	3502	3465	3485
45°	3493	3443	3468
50°	3483	3422	3452
55°	3471	3386	3421
60°	3428	3322	3393
65°	3358	3218	3338
70°	3238	3103	3097
75°	3048	2912	2462
80°	2682	2277	2341
85°	2118	1991	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	3.2
10°-20°	623.3	9.1
20°-30°	953.8	13.9
30°-40°	1165.8	17.0
40°-50°	1231.9	17.9
50°-60°	1141.4	16.6
60°-70°	894.3	13.0
70°-80°	505.6	7.4
80°-90°	133.1	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°	1793.8	26.1
0°-40°	2959.6	43.1
0°-60°	5333.0	77.7
0°-90°	6866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2288	2281	2277	2275	2282	218
15°	2215	2206	2205	2204	2211	626
25°	2076	2067	2066	2066	2076	957
35°	1872	1864	1859	1859	1869	1172
45°	1612	1601	1590	1590	1601	1244
55°	1300	1285	1268	1271	1281	1161
65°	927	910	888	900	921	916
75°	515	501	492	439	416	542
85°	120	113	113	108	105	142
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2288.2	2288.2	2288.2	2288.2	2288.2
2.5°	2296.8	2286.7	2283.9	2281.0	2288.2
5°	2288.2	2281.0	2276.7	2275.2	2282.4
7.5°	2278.1	2269.5	2266.6	2263.8	2270.9
10°	2260.9	2252.3	2249.4	2248.0	2255.2
12.5°	2240.8	2230.8	2229.3	2227.9	2235.1
15°	2215.0	2206.4	2205.0	2203.5	2210.7
17.5°	2187.7	2179.1	2176.3	2174.8	2184.9
20°	2154.7	2146.1	2144.7	2143.3	2151.9
22.5°	2117.4	2108.8	2106.0	2107.4	2116.0
25°	2075.8	2067.2	2065.8	2065.8	2075.8
27.5°	2029.9	2021.3	2021.3	2021.3	2032.8
30°	1981.2	1974.0	1969.7	1971.1	1981.2
32.5°	1930.9	1919.5	1916.6	1918.0	1928.1
35°	1872.1	1863.5	1859.2	1859.2	1869.3
37.5°	1811.9	1803.3	1797.5	1797.5	1807.6
40°	1751.6	1738.7	1733.0	1730.1	1743.0
42.5°	1684.2	1674.2	1661.2	1661.2	1672.7
45°	1612.5	1601.0	1589.5	1589.5	1601.0
47.5°	1539.3	1527.8	1514.9	1514.9	1526.4
50°	1461.8	1450.4	1436.0	1436.0	1448.9
52.5°	1382.9	1370.0	1354.2	1352.8	1365.7
55°	1299.7	1285.4	1268.2	1271.0	1281.1
57.5°	1215.1	1196.4	1179.2	1179.2	1195.0
60°	1119.0	1103.2	1084.5	1087.4	1107.5
62.5°	1027.2	1007.1	988.4	995.6	1012.8
65°	926.7	909.5	888.0	899.5	921.0
67.5°	827.8	809.1	791.9	806.2	816.3
70°	723.0	705.8	692.9	692.9	691.5
72.5°	618.3	602.5	599.7	572.4	555.2
75°	515.0	500.7	492.1	439.0	416.0
77.5°	407.4	403.1	375.9	319.9	312.7
80°	304.1	307.0	258.2	259.7	265.4
82.5°	209.4	205.1	193.7	185.1	182.2
85°	120.5	113.3	113.3	107.6	104.7
87.5°	40.2	44.5	44.5	44.5	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)