

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: P238947

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238947
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-L840-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6694.4 lumens
Efficiency: N/A
Efficacy: 119.3 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

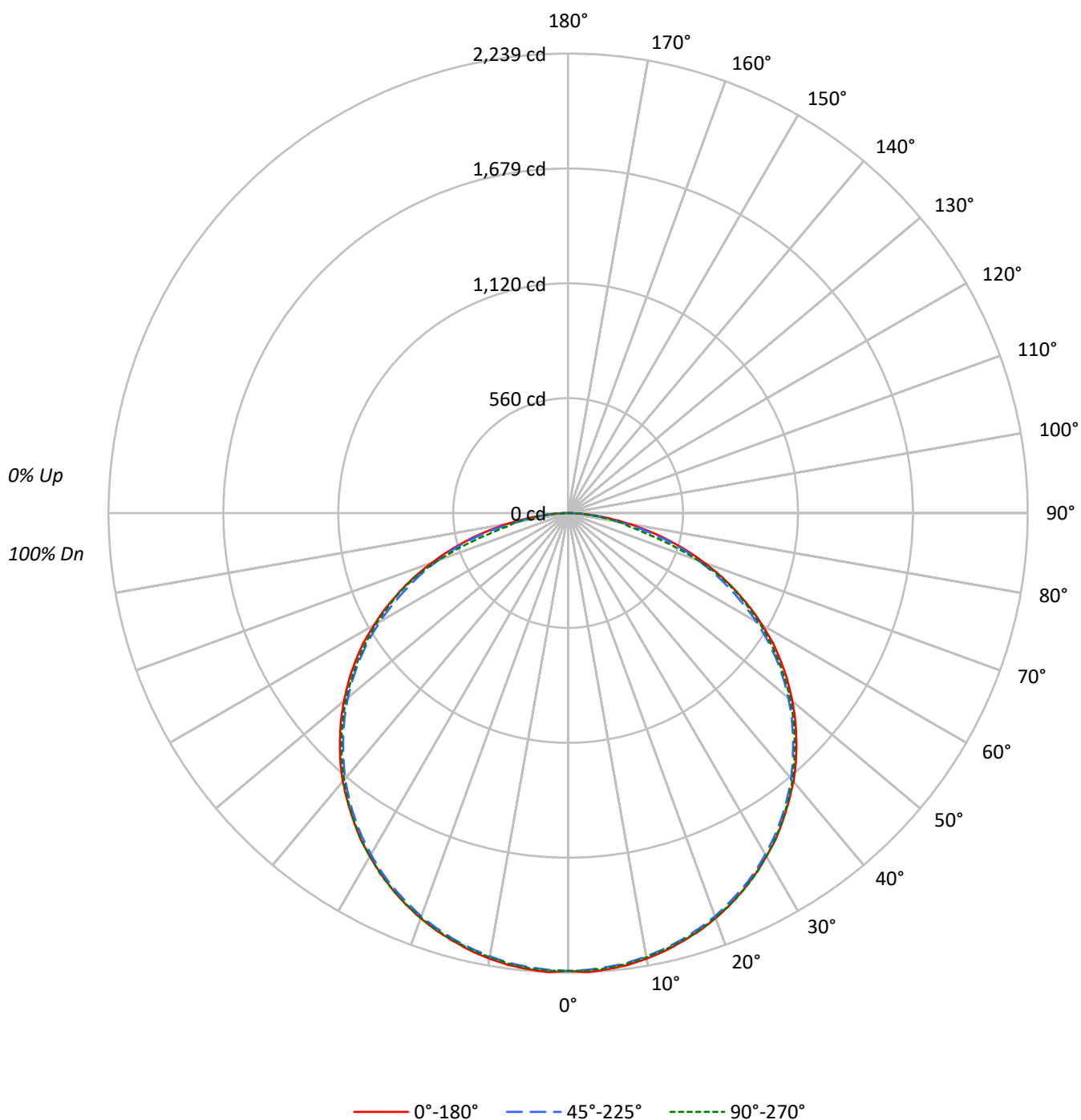
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		90
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	67	62		71	66	61		69
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		61
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		50
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		41
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38
10	52	39	31	26	51	38	31	25	37	30	25		36	30	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3759	3759	3759
5°	3773	3754	3764
10°	3771	3752	3762
15°	3767	3750	3759
20°	3767	3749	3762
25°	3762	3744	3762
30°	3758	3736	3758
35°	3754	3728	3748
40°	3756	3716	3738
45°	3746	3693	3719
50°	3736	3670	3703
55°	3722	3632	3669
60°	3676	3563	3638
65°	3602	3452	3580
70°	3473	3328	3321
75°	3268	3123	2640
80°	2877	2443	2511
85°	2271	2136	1974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	3.2
10°-20°	607.7	9.1
20°-30°	929.9	13.9
30°-40°	1136.7	17.0
40°-50°	1201.1	17.9
50°-60°	1112.9	16.6
60°-70°	871.9	13.0
70°-80°	492.9	7.4
80°-90°	129.8	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°	1749.0	26.1
0°-40°	2885.7	43.1
0°-60°	5199.7	77.7
0°-90°	6694.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6694.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2231	2224	2220	2218	2225	212
15°	2160	2151	2150	2148	2155	610
25°	2024	2016	2014	2014	2024	933
35°	1825	1817	1813	1813	1822	1143
45°	1572	1561	1550	1550	1561	1213
55°	1267	1253	1236	1239	1249	1132
65°	904	887	866	877	898	893
75°	502	488	480	428	406	528
85°	118	110	110	105	102	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2231.0	2231.0	2231.0	2231.0	2231.0
2.5°	2239.3	2229.6	2226.8	2224.0	2231.0
5°	2231.0	2224.0	2219.8	2218.4	2225.4
7.5°	2221.2	2212.8	2210.0	2207.2	2214.2
10°	2204.4	2196.0	2193.2	2191.8	2198.8
12.5°	2184.8	2175.0	2173.6	2172.2	2179.2
15°	2159.6	2151.2	2149.8	2148.4	2155.4
17.5°	2133.0	2124.6	2121.9	2120.5	2130.2
20°	2100.9	2092.5	2091.1	2089.7	2098.1
22.5°	2064.5	2056.1	2053.3	2054.7	2063.1
25°	2023.9	2015.5	2014.2	2014.2	2023.9
27.5°	1979.2	1970.8	1970.8	1970.8	1982.0
30°	1931.6	1924.6	1920.4	1921.8	1931.6
32.5°	1882.7	1871.5	1868.7	1870.1	1879.9
35°	1825.3	1816.9	1812.7	1812.7	1822.5
37.5°	1766.6	1758.2	1752.6	1752.6	1762.4
40°	1707.8	1695.2	1689.6	1686.9	1699.4
42.5°	1642.1	1632.3	1619.7	1619.7	1630.9
45°	1572.2	1561.0	1549.8	1549.8	1561.0
47.5°	1500.8	1489.6	1477.0	1477.0	1488.2
50°	1425.3	1414.1	1400.1	1400.1	1412.7
52.5°	1348.4	1335.8	1320.4	1319.0	1331.6
55°	1267.2	1253.2	1236.5	1239.3	1249.1
57.5°	1184.7	1166.5	1149.7	1149.7	1165.1
60°	1091.0	1075.6	1057.4	1060.2	1079.8
62.5°	1001.5	981.9	963.7	970.7	987.5
65°	903.6	886.8	865.8	877.0	898.0
67.5°	807.1	788.9	772.1	786.1	795.9
70°	705.0	688.2	675.6	675.6	674.2
72.5°	602.8	587.5	584.7	558.1	541.3
75°	502.1	488.2	479.8	428.0	405.6
77.5°	397.2	393.0	366.5	311.9	304.9
80°	296.5	299.3	251.8	253.2	258.8
82.5°	204.2	200.0	188.8	180.4	177.6
85°	117.5	110.5	110.5	104.9	102.1
87.5°	39.2	43.4	43.4	43.4	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)