

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: P238992

Luminaire Tested: **24EN-LD2-70-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238992
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-LD2-70-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: 6704.6 lumens
Efficiency: N/A
Efficacy: 111.4 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

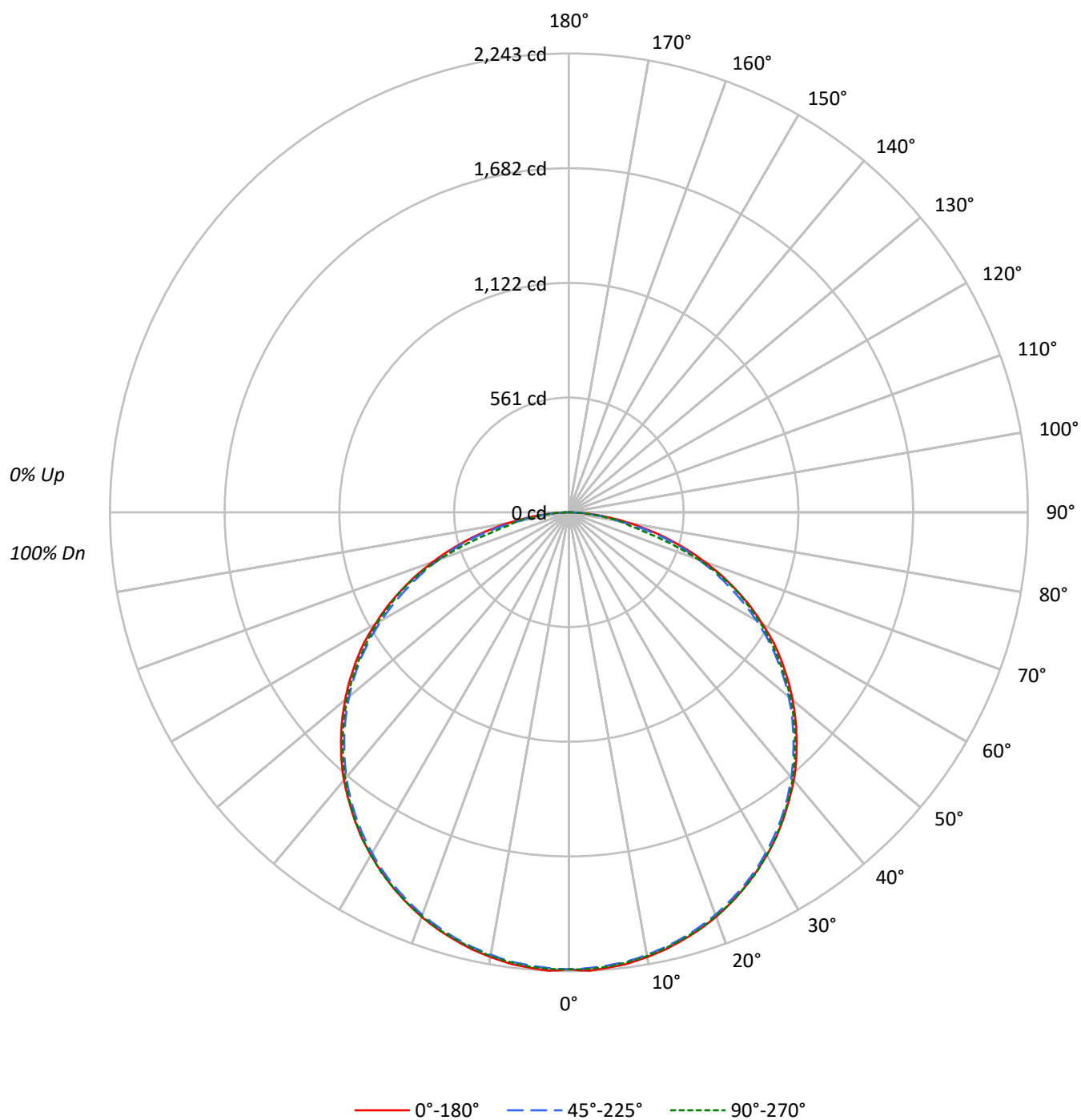
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3422	3422	3422
5°	3435	3418	3427
10°	3434	3416	3425
15°	3430	3414	3423
20°	3430	3414	3425
25°	3426	3409	3426
30°	3421	3402	3421
35°	3418	3395	3413
40°	3420	3383	3403
45°	3411	3362	3386
50°	3401	3341	3371
55°	3389	3307	3341
60°	3347	3244	3313
65°	3279	3142	3259
70°	3162	3030	3024
75°	2976	2843	2404
80°	2620	2224	2286
85°	2068	1945	1798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	3.2
10°-20°	608.7	9.1
20°-30°	931.4	13.9
30°-40°	1138.4	17.0
40°-50°	1203.0	17.9
50°-60°	1114.6	16.6
60°-70°	873.2	13.0
70°-80°	493.7	7.4
80°-90°	130.0	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°	1751.7	26.1
0°-40°	2890.1	43.1
0°-60°	5207.6	77.7
0°-90°	6704.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6704.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2234	2234	2234	2234	2234	
5°	2234	2227	2223	2222	2229	212
15°	2163	2154	2153	2152	2159	611
25°	2027	2019	2017	2017	2027	935
35°	1828	1820	1816	1816	1825	1145
45°	1575	1563	1552	1552	1563	1215
55°	1269	1255	1238	1241	1251	1133
65°	905	888	867	878	899	895
75°	503	489	480	429	406	529
85°	118	111	111	105	102	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2234.4	2234.4	2234.4	2234.4	2234.4
2.5°	2242.8	2233.0	2230.2	2227.4	2234.4
5°	2234.4	2227.4	2223.1	2221.7	2228.8
7.5°	2224.5	2216.1	2213.3	2210.5	2217.5
10°	2207.7	2199.3	2196.5	2195.1	2202.1
12.5°	2188.1	2178.3	2176.9	2175.5	2182.5
15°	2162.9	2154.5	2153.1	2151.7	2158.7
17.5°	2136.3	2127.9	2125.1	2123.7	2133.5
20°	2104.1	2095.7	2094.3	2092.9	2101.3
22.5°	2067.7	2059.2	2056.4	2057.8	2066.3
25°	2027.0	2018.6	2017.2	2017.2	2027.0
27.5°	1982.2	1973.8	1973.8	1973.8	1985.0
30°	1934.6	1927.6	1923.4	1924.8	1934.6
32.5°	1885.5	1874.3	1871.5	1872.9	1882.7
35°	1828.1	1819.7	1815.5	1815.5	1825.3
37.5°	1769.3	1760.9	1755.3	1755.3	1765.1
40°	1710.4	1697.8	1692.2	1689.4	1702.0
42.5°	1644.6	1634.8	1622.2	1622.2	1633.4
45°	1574.6	1563.3	1552.1	1552.1	1563.3
47.5°	1503.1	1491.9	1479.3	1479.3	1490.5
50°	1427.5	1416.3	1402.3	1402.3	1414.9
52.5°	1350.4	1337.8	1322.4	1321.0	1333.6
55°	1269.2	1255.2	1238.4	1241.2	1251.0
57.5°	1186.5	1168.3	1151.5	1151.5	1166.9
60°	1092.7	1077.3	1059.0	1061.8	1081.5
62.5°	1003.0	983.4	965.2	972.2	989.0
65°	904.9	888.1	867.1	878.3	899.3
67.5°	808.3	790.1	773.3	787.3	797.1
70°	706.0	689.2	676.6	676.6	675.2
72.5°	603.8	588.4	585.6	558.9	542.1
75°	502.9	488.9	480.5	428.7	406.2
77.5°	397.8	393.6	367.0	312.4	305.4
80°	297.0	299.8	252.2	253.6	259.2
82.5°	204.5	200.3	189.1	180.7	177.9
85°	117.7	110.7	110.7	105.1	102.3
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)