

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: P238948

Luminaire Tested: **24ENA-LD2-67-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238948
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-L850-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
AIR-VENTED OPTION
Light Source: (308)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7284.2 lumens
Efficiency: N/A
Efficacy: 129.8 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

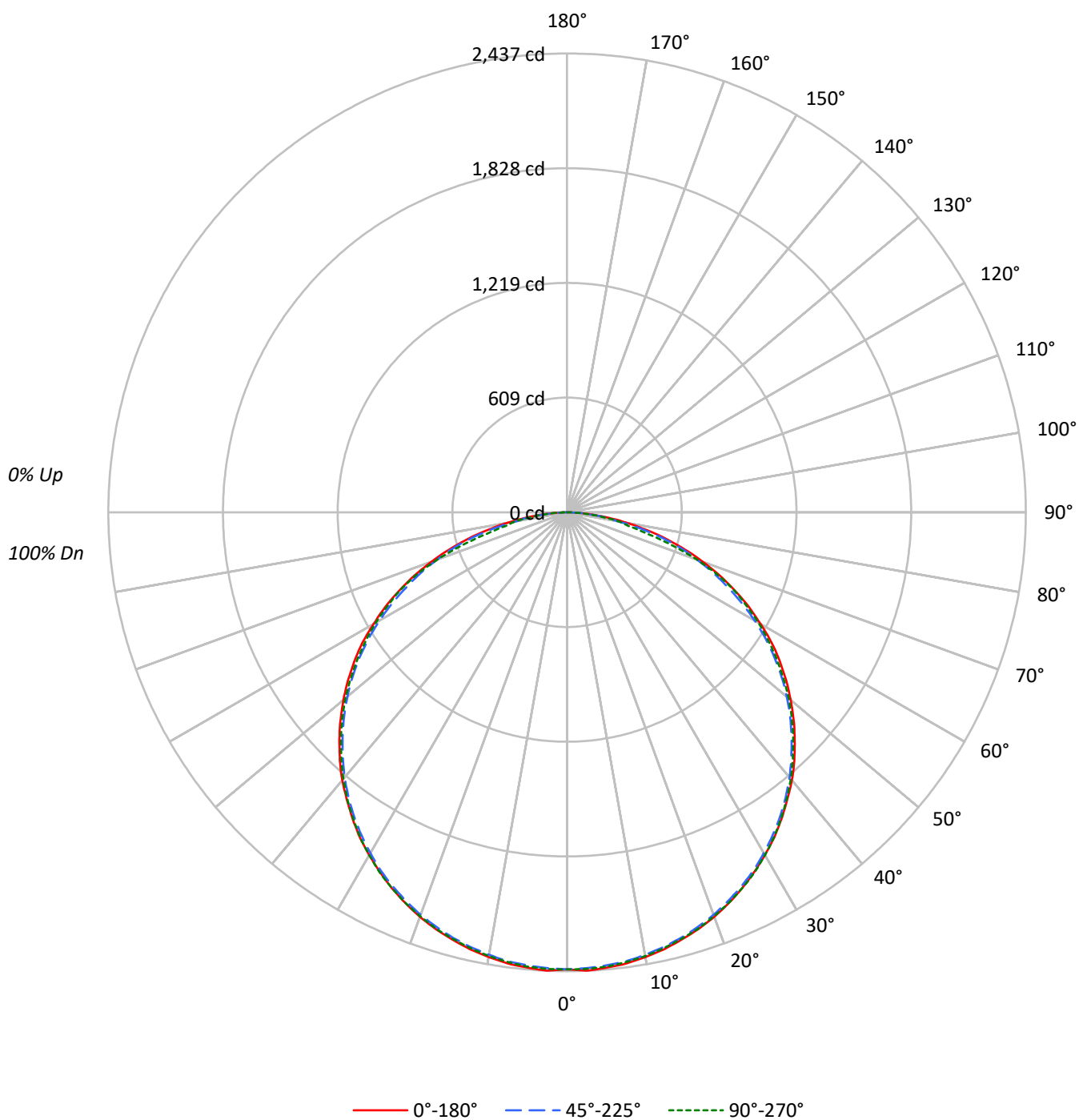
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4090	4090	4090
5°	4105	4085	4095
10°	4103	4083	4093
15°	4099	4080	4091
20°	4099	4079	4093
25°	4094	4074	4094
30°	4089	4065	4089
35°	4085	4057	4079
40°	4087	4043	4067
45°	4076	4018	4047
50°	4065	3993	4029
55°	4050	3952	3992
60°	4000	3877	3959
65°	3920	3756	3895
70°	3779	3621	3614
75°	3557	3398	2873
80°	3131	2658	2732
85°	2470	2324	2148



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	3.2
10°-20°	661.3	9.1
20°-30°	1011.9	13.9
30°-40°	1236.8	17.0
40°-50°	1307.0	17.9
50°-60°	1211.0	16.6
60°-70°	948.7	13.0
70°-80°	536.4	7.4
80°-90°	141.2	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°	1903.1	26.1
0°-40°	3139.9	43.1
0°-60°	5657.9	77.7
0°-90°	7284.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7284.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2428	2428	2428	2428	2428	
5°	2428	2420	2415	2414	2421	231
15°	2350	2341	2339	2338	2345	664
25°	2202	2193	2192	2192	2202	1015
35°	1986	1977	1972	1972	1983	1243
45°	1711	1698	1686	1686	1698	1320
55°	1379	1364	1345	1348	1359	1231
65°	983	965	942	954	977	972
75°	546	531	522	466	441	575
85°	128	120	120	114	111	151
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2427.5	2427.5	2427.5	2427.5	2427.5
2.5°	2436.7	2426.0	2423.0	2419.9	2427.5
5°	2427.5	2419.9	2415.4	2413.8	2421.4
7.5°	2416.9	2407.7	2404.7	2401.7	2409.3
10°	2398.6	2389.5	2386.4	2384.9	2392.5
12.5°	2377.3	2366.7	2365.1	2363.6	2371.2
15°	2349.9	2340.8	2339.3	2337.7	2345.3
17.5°	2321.0	2311.9	2308.8	2307.3	2318.0
20°	2286.0	2276.9	2275.3	2273.8	2282.9
22.5°	2246.4	2237.3	2234.2	2235.8	2244.9
25°	2202.3	2193.2	2191.6	2191.6	2202.3
27.5°	2153.6	2144.4	2144.4	2144.4	2156.6
30°	2101.8	2094.2	2089.7	2091.2	2101.8
32.5°	2048.6	2036.4	2033.3	2034.9	2045.5
35°	1986.2	1977.0	1972.5	1972.5	1983.1
37.5°	1922.2	1913.1	1907.0	1907.0	1917.7
40°	1858.3	1844.6	1838.5	1835.5	1849.2
42.5°	1786.8	1776.1	1762.4	1762.4	1774.6
45°	1710.7	1698.5	1686.3	1686.3	1698.5
47.5°	1633.1	1620.9	1607.2	1607.2	1619.4
50°	1550.9	1538.7	1523.5	1523.5	1537.2
52.5°	1467.2	1453.5	1436.7	1435.2	1448.9
55°	1378.9	1363.7	1345.4	1348.5	1359.1
57.5°	1289.1	1269.3	1251.1	1251.1	1267.8
60°	1187.1	1170.4	1150.6	1153.6	1175.0
62.5°	1089.7	1068.4	1048.6	1056.2	1074.5
65°	983.2	964.9	942.1	954.3	977.1
67.5°	878.2	858.4	840.1	855.3	866.0
70°	767.1	748.8	735.1	735.1	733.6
72.5°	656.0	639.2	636.2	607.3	589.0
75°	546.4	531.2	522.0	465.7	441.4
77.5°	432.2	427.7	398.8	339.4	331.8
80°	322.7	325.7	274.0	275.5	281.6
82.5°	222.2	217.6	205.5	196.3	193.3
85°	127.8	120.2	120.2	114.1	111.1
87.5°	42.6	47.2	47.2	47.2	48.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)