

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: P238908

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238908
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-L850-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7471.0 lumens
Efficiency: N/A
Efficacy: 133.2 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

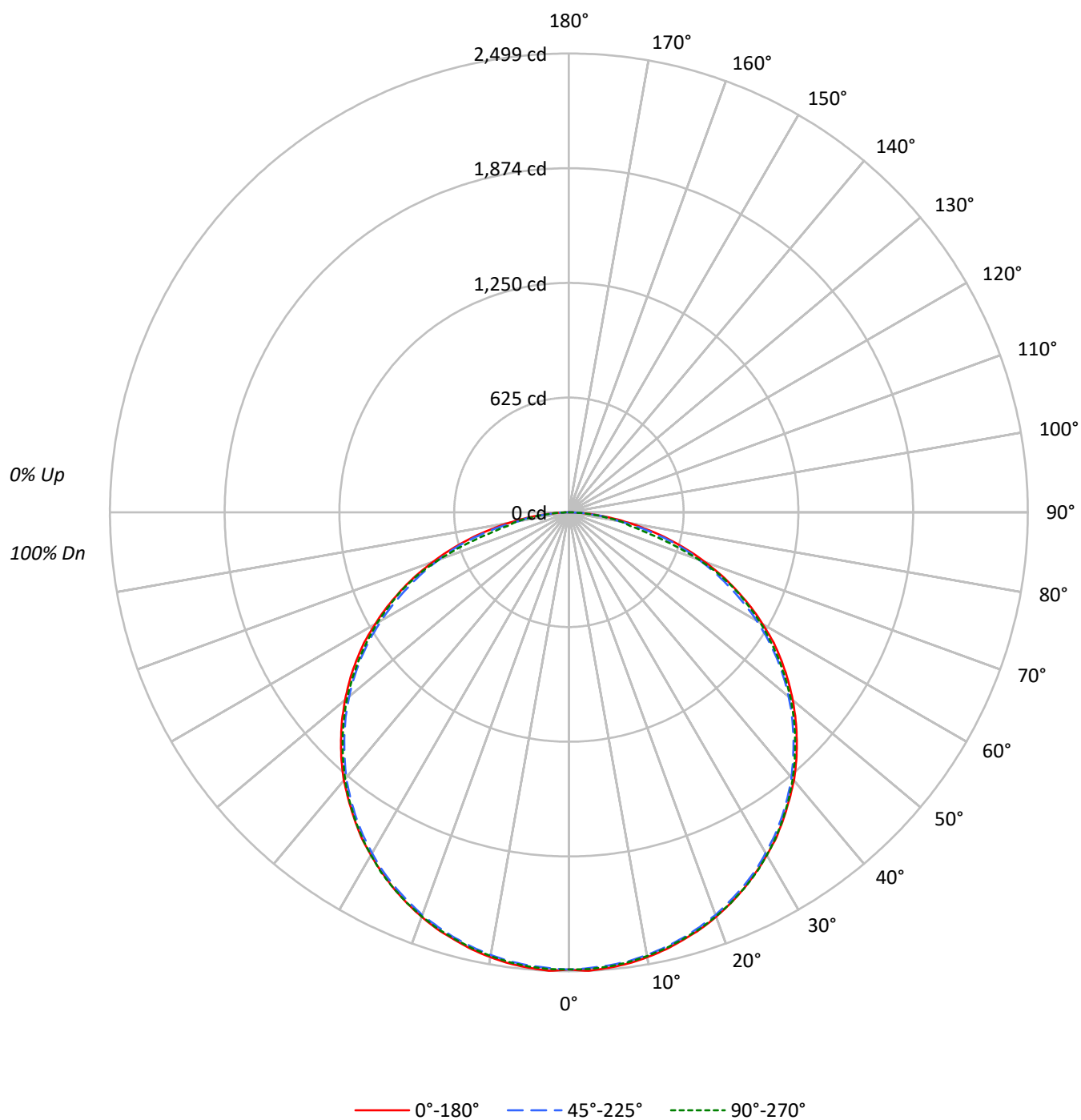
Input Watts (W): 56.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	3813	3813	3813
5°	3828	3809	3818
10°	3826	3807	3816
15°	3822	3804	3814
20°	3822	3804	3816
25°	3817	3799	3817
30°	3813	3790	3813
35°	3809	3783	3803
40°	3811	3770	3792
45°	3801	3746	3773
50°	3790	3723	3757
55°	3777	3685	3722
60°	3730	3615	3692
65°	3655	3502	3632
70°	3523	3377	3369
75°	3316	3168	2679
80°	2919	2478	2547
85°	2304	2167	2003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.8	3.2
10°-20°	678.2	9.1
20°-30°	1037.8	13.9
30°-40°	1268.5	17.0
40°-50°	1340.5	17.9
50°-60°	1242.0	16.6
60°-70°	973.1	13.0
70°-80°	550.1	7.4
80°-90°	144.9	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°	1951.9	26.1
0°-40°	3220.4	43.1
0°-60°	5803.0	77.7
0°-90°	7471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2490	2490	2490	2490	2490	
5°	2490	2482	2477	2476	2484	237
15°	2410	2401	2399	2398	2406	681
25°	2259	2249	2248	2248	2259	1041
35°	2037	2028	2023	2023	2034	1275
45°	1755	1742	1730	1730	1742	1354
55°	1414	1399	1380	1383	1394	1263
65°	1008	990	966	979	1002	997
75°	560	545	535	478	453	589
85°	131	123	123	117	114	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2489.8	2489.8	2489.8	2489.8	2489.8
2.5°	2499.1	2488.2	2485.1	2482.0	2489.8
5°	2489.8	2482.0	2477.3	2475.7	2483.5
7.5°	2478.9	2469.5	2466.4	2463.2	2471.0
10°	2460.1	2450.8	2447.6	2446.1	2453.9
12.5°	2438.3	2427.3	2425.8	2424.2	2432.0
15°	2410.2	2400.8	2399.2	2397.7	2405.5
17.5°	2380.5	2371.1	2368.0	2366.5	2377.4
20°	2344.6	2335.2	2333.7	2332.1	2341.5
22.5°	2304.0	2294.7	2291.5	2293.1	2302.5
25°	2258.8	2249.4	2247.8	2247.8	2258.8
27.5°	2208.8	2199.4	2199.4	2199.4	2211.9
30°	2155.7	2147.9	2143.2	2144.8	2155.7
32.5°	2101.1	2088.6	2085.5	2087.0	2098.0
35°	2037.1	2027.7	2023.0	2023.0	2034.0
37.5°	1971.5	1962.2	1955.9	1955.9	1966.8
40°	1906.0	1891.9	1885.7	1882.6	1896.6
42.5°	1832.6	1821.7	1807.6	1807.6	1820.1
45°	1754.6	1742.1	1729.6	1729.6	1742.1
47.5°	1674.9	1662.5	1648.4	1648.4	1660.9
50°	1590.6	1578.2	1562.6	1562.6	1576.6
52.5°	1504.8	1490.7	1473.6	1472.0	1486.1
55°	1414.3	1398.6	1379.9	1383.0	1394.0
57.5°	1322.2	1301.9	1283.1	1283.1	1300.3
60°	1217.6	1200.4	1180.1	1183.2	1205.1
62.5°	1117.7	1095.8	1075.5	1083.3	1102.1
65°	1008.4	989.7	966.3	978.7	1002.2
67.5°	900.7	880.4	861.7	877.3	888.2
70°	786.7	768.0	754.0	754.0	752.4
72.5°	672.8	655.6	652.5	622.8	604.1
75°	560.4	544.8	535.4	477.7	452.7
77.5°	443.3	438.6	409.0	348.1	340.3
80°	330.9	334.1	281.0	282.5	288.8
82.5°	227.9	223.2	210.7	201.4	198.2
85°	131.1	123.3	123.3	117.1	114.0
87.5°	43.7	48.4	48.4	48.4	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)