

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: P238982

Luminaire Tested: **24EN-LD2-58-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P238982
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-LD2-58-UNV-L935-CD1-U
Description: METALUX ENCOUNTER 2X4 LED TROFFER
STANDARD OPTION
Light Source: (308)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5026.6 lumens
Efficiency: N/A
Efficacy: 106.9 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

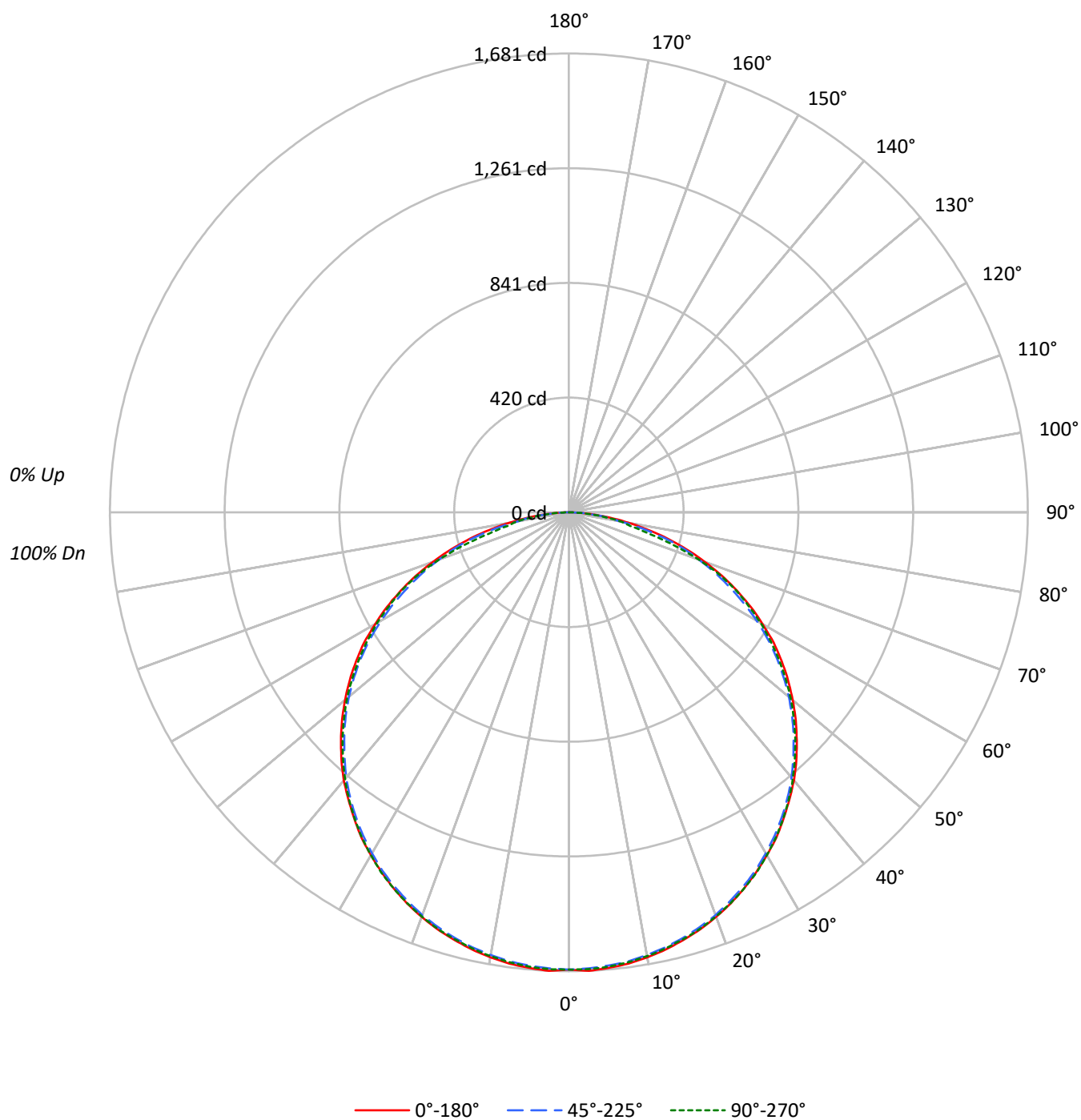
Input Watts (W): 47
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
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°	2566	2566	2566
5°	2575	2563	2569
10°	2574	2561	2568
15°	2571	2560	2566
20°	2571	2559	2568
25°	2568	2556	2568
30°	2565	2550	2565
35°	2563	2545	2559
40°	2564	2537	2551
45°	2557	2521	2539
50°	2550	2505	2527
55°	2541	2479	2504
60°	2509	2432	2484
65°	2459	2356	2444
70°	2370	2272	2267
75°	2231	2132	1803
80°	1964	1667	1714
85°	1550	1459	1348



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	3.2
10°-20°	456.3	9.1
20°-30°	698.3	13.9
30°-40°	853.5	17.0
40°-50°	901.9	17.9
50°-60°	835.6	16.6
60°-70°	654.7	13.0
70°-80°	370.1	7.4
80°-90°	97.5	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°	1313.2	26.1
0°-40°	2166.7	43.1
0°-60°	3904.3	77.7
0°-90°	5026.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5026.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1675	1670	1667	1666	1671	159
15°	1622	1615	1614	1613	1618	458
25°	1520	1513	1512	1512	1520	701
35°	1371	1364	1361	1361	1368	858
45°	1180	1172	1164	1164	1172	911
55°	952	941	928	930	938	850
65°	678	666	650	658	674	671
75°	377	366	360	321	305	397
85°	88	83	83	79	77	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.1	1675.1	1675.1	1675.1	1675.1
2.5°	1681.4	1674.1	1672.0	1669.9	1675.1
5°	1675.1	1669.9	1666.7	1665.7	1670.9
7.5°	1667.8	1661.5	1659.4	1657.3	1662.5
10°	1655.2	1648.9	1646.8	1645.7	1651.0
12.5°	1640.5	1633.1	1632.1	1631.0	1636.3
15°	1621.6	1615.3	1614.2	1613.2	1618.4
17.5°	1601.6	1595.3	1593.2	1592.2	1599.5
20°	1577.5	1571.2	1570.1	1569.1	1575.4
22.5°	1550.2	1543.9	1541.8	1542.8	1549.1
25°	1519.7	1513.4	1512.3	1512.3	1519.7
27.5°	1486.1	1479.8	1479.8	1479.8	1488.2
30°	1450.4	1445.1	1442.0	1443.0	1450.4
32.5°	1413.6	1405.2	1403.1	1404.2	1411.5
35°	1370.6	1364.3	1361.1	1361.1	1368.5
37.5°	1326.5	1320.2	1316.0	1316.0	1323.3
40°	1282.3	1272.9	1268.7	1266.6	1276.0
42.5°	1233.0	1225.6	1216.2	1216.2	1224.6
45°	1180.5	1172.1	1163.7	1163.7	1172.1
47.5°	1126.9	1118.5	1109.1	1109.1	1117.5
50°	1070.2	1061.8	1051.3	1051.3	1060.7
52.5°	1012.4	1003.0	991.4	990.4	999.8
55°	951.5	941.0	928.4	930.5	937.9
57.5°	889.6	875.9	863.3	863.3	874.8
60°	819.2	807.6	794.0	796.1	810.8
62.5°	752.0	737.3	723.6	728.9	741.5
65°	678.5	665.9	650.1	658.5	674.3
67.5°	606.0	592.3	579.7	590.2	597.6
70°	529.3	516.7	507.3	507.3	506.2
72.5°	452.7	441.1	439.0	419.0	406.4
75°	377.0	366.5	360.2	321.4	304.6
77.5°	298.3	295.1	275.2	234.2	229.0
80°	222.7	224.8	189.0	190.1	194.3
82.5°	153.3	150.2	141.8	135.5	133.4
85°	88.2	83.0	83.0	78.8	76.7
87.5°	29.4	32.6	32.6	32.6	33.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)