

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: P232321

Luminaire Tested: **24RDIA-50-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-8-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RDIA-50-UNV-L835-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

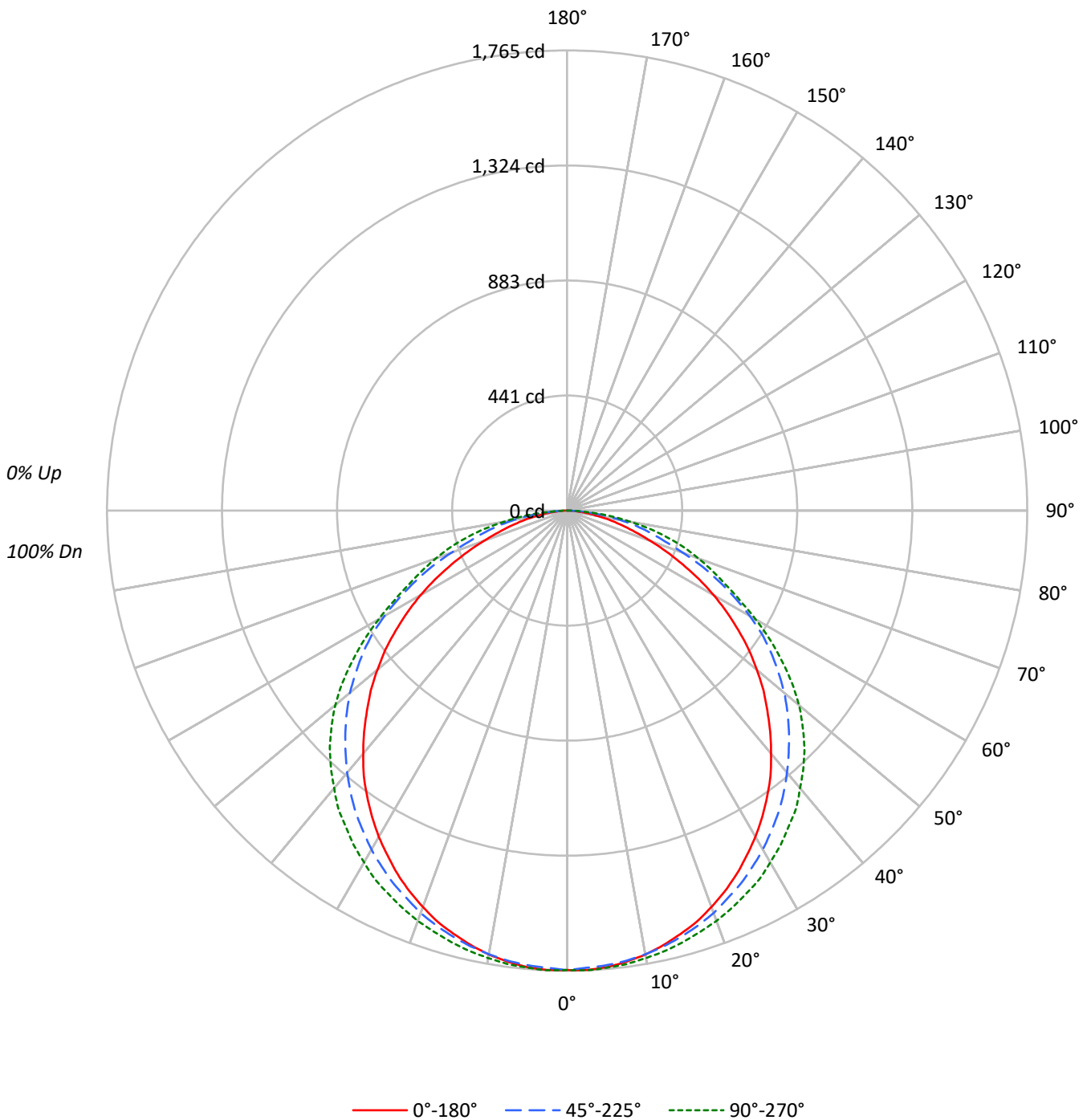
Lumens per Lamp: N/A
Luminaire Lumens: 5056.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 50.3
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	0		
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	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	74		79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2846	2846	2846
5°	2849	2837	2853
10°	2835	2833	2857
15°	2810	2828	2866
20°	2780	2822	2877
25°	2741	2812	2891
30°	2693	2799	2905
35°	2638	2786	2918
40°	2565	2766	2930
45°	2480	2748	2940
50°	2386	2731	2917
55°	2260	2695	2831
60°	2097	2616	2696
65°	1867	2457	2556
70°	1606	2231	2528
75°	1358	2068	2485
80°	1104	1921	2266
85°	780	1489	1788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	3.3
10°-20°	478.6	9.5
20°-30°	728.1	14.4
30°-40°	882.9	17.5
40°-50°	922.0	18.2
50°-60°	830.5	16.4
60°-70°	611.0	12.1
70°-80°	345.9	6.8
80°-90°	90.0	1.8
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°	1373.6	27.2
0°-40°	2256.5	44.6
0°-60°	4009.0	79.3
0°-90°	5056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5056.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1758	1754	1750	1758	1760	167
15°	1681	1683	1692	1708	1714	474
25°	1539	1548	1578	1612	1623	708
35°	1338	1360	1414	1462	1480	836
45°	1086	1127	1204	1266	1288	838
55°	803	858	957	1001	1006	717
65°	489	575	643	662	669	486
75°	218	284	332	383	398	235
85°	42	58	80	92	96	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.5	1762.5	1762.5	1762.5	1762.5
2.5°	1763.8	1760.0	1755.1	1761.3	1765.0
5°	1757.6	1753.9	1750.2	1757.6	1760.0
7.5°	1745.2	1742.7	1741.5	1750.2	1753.9
10°	1729.1	1726.7	1727.9	1740.3	1742.7
12.5°	1706.9	1708.1	1711.8	1725.4	1730.4
15°	1680.9	1683.4	1692.0	1708.1	1714.3
17.5°	1653.7	1654.9	1668.5	1688.3	1694.5
20°	1617.8	1625.2	1642.5	1666.0	1674.7
22.5°	1580.7	1589.4	1609.2	1640.1	1650.0
25°	1538.7	1548.5	1578.2	1611.6	1622.8
27.5°	1491.7	1506.5	1539.9	1579.5	1595.5
30°	1444.7	1460.7	1501.5	1543.6	1558.4
32.5°	1392.7	1410.0	1457.0	1505.3	1522.6
35°	1338.3	1360.5	1413.7	1462.0	1480.5
37.5°	1281.4	1304.9	1364.3	1419.9	1442.2
40°	1217.1	1246.8	1312.3	1371.7	1390.2
42.5°	1152.8	1188.6	1257.9	1321.0	1340.8
45°	1086.0	1126.8	1203.5	1266.5	1287.6
47.5°	1021.6	1062.5	1146.6	1208.4	1225.7
50°	949.9	999.4	1087.2	1146.6	1161.4
52.5°	879.4	930.1	1021.6	1078.5	1087.2
55°	802.7	858.4	957.3	1000.6	1005.6
57.5°	727.3	789.1	888.1	922.7	923.9
60°	649.4	717.4	810.1	834.9	834.9
62.5°	571.4	649.4	726.0	750.8	748.3
65°	488.6	575.1	643.2	661.7	669.1
67.5°	411.9	504.6	561.5	582.6	601.1
70°	340.1	431.7	472.5	515.8	535.6
72.5°	274.6	361.2	393.3	455.2	470.0
75°	217.7	284.5	331.5	383.4	398.3
77.5°	168.2	211.5	270.9	315.4	324.1
80°	118.7	145.9	206.6	237.5	243.7
82.5°	79.2	100.2	143.5	165.7	173.2
85°	42.1	58.1	80.4	91.5	96.5
87.5°	16.1	23.5	27.2	29.7	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)