

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: P232306

Luminaire Tested: **24RDI-40-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-2-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RDI-40-UNV-L840-CD1-U  
Description: METALUX 2X4 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (392) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

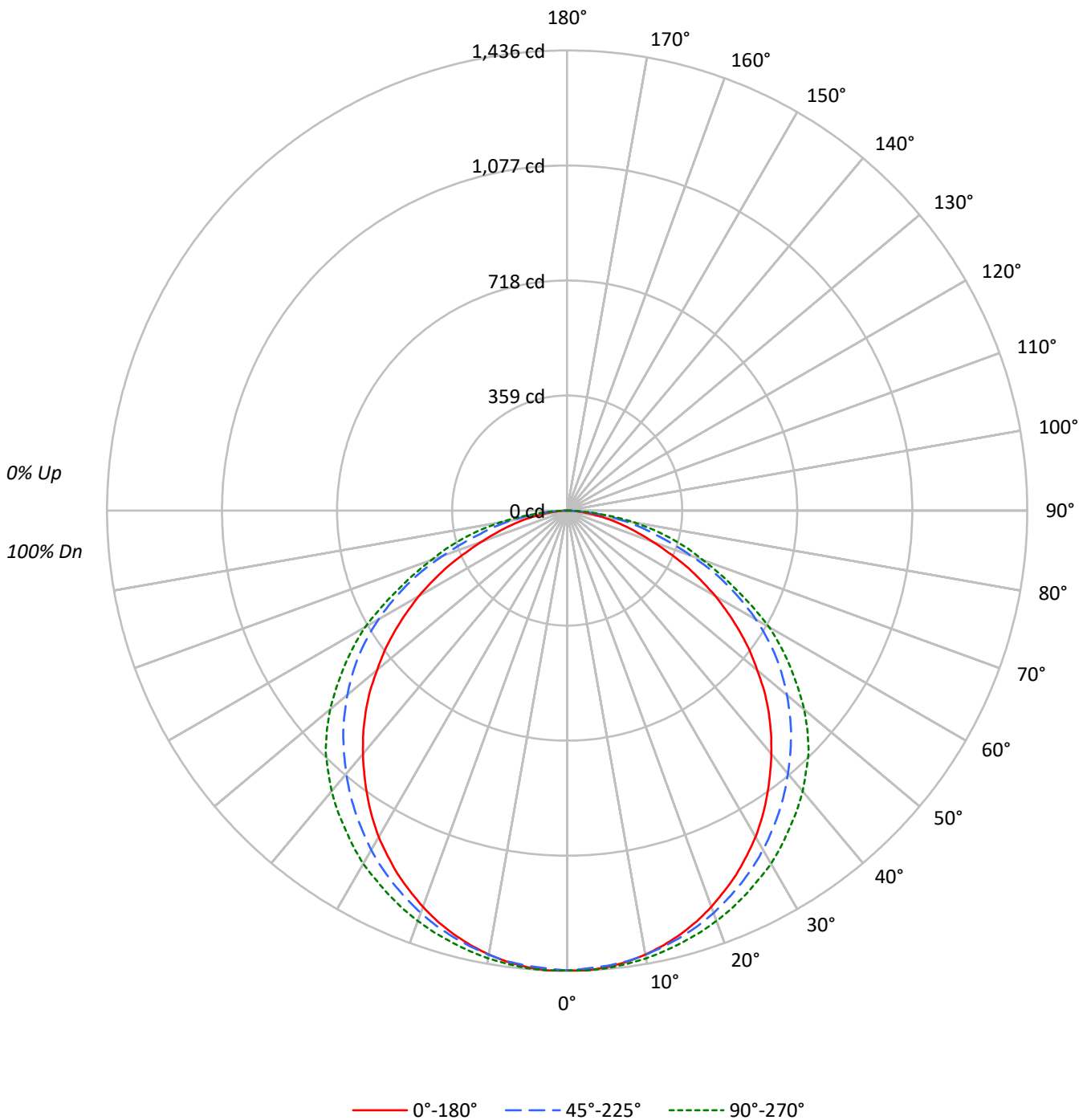
Lumens per Lamp: N/A  
Luminaire Lumens: 4179.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 40  
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	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1931	1931	1931
5°	1932	1926	1936
10°	1922	1923	1939
15°	1907	1918	1942
20°	1884	1913	1951
25°	1858	1907	1961
30°	1827	1900	1978
35°	1786	1892	1987
40°	1741	1883	2008
45°	1693	1881	2028
50°	1621	1875	2022
55°	1541	1866	1993
60°	1438	1831	1960
65°	1302	1760	1848
70°	1116	1621	1769
75°	971	1458	1745
80°	806	1359	1628
85°	551	1054	1196



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.9	3.3
10°-20°	389.5	9.3
20°-30°	592.6	14.2
30°-40°	720.0	17.2
40°-50°	757.1	18.1
50°-60°	690.8	16.5
60°-70°	520.2	12.4
70°-80°	295.4	7.1
80°-90°	77.5	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°	1118.0	26.8
0°-40°	1838.0	44.0
0°-60°	3285.9	78.6
0°-90°	4179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4179.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1430	1428	1426	1431	1433	136
15°	1369	1371	1377	1390	1394	386
25°	1252	1261	1284	1312	1321	576
35°	1087	1108	1152	1194	1210	680
45°	890	919	988	1044	1066	685
55°	657	708	796	838	850	586
65°	409	476	553	573	580	403
75°	187	246	280	324	336	200
85°	36	54	68	80	78	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1435.2	1435.2	1435.2	1435.2	1435.2
2.5°	1436.2	1434.2	1430.1	1434.2	1436.2
5°	1430.1	1428.1	1426.0	1431.1	1433.2
7.5°	1420.9	1419.9	1418.9	1425.0	1427.0
10°	1406.6	1406.6	1407.7	1415.8	1418.9
12.5°	1389.3	1389.3	1393.4	1403.6	1407.7
15°	1368.9	1370.9	1377.1	1390.3	1394.4
17.5°	1344.4	1348.5	1358.7	1374.0	1380.1
20°	1315.9	1321.0	1336.3	1355.6	1362.8
22.5°	1284.2	1293.4	1310.8	1335.2	1343.4
25°	1251.6	1260.8	1284.2	1311.8	1321.0
27.5°	1213.9	1225.1	1254.7	1285.3	1296.5
30°	1176.1	1186.3	1223.0	1258.7	1273.0
32.5°	1133.3	1147.6	1187.3	1227.1	1242.4
35°	1087.4	1107.8	1151.6	1194.5	1209.8
37.5°	1039.4	1063.9	1112.9	1160.8	1178.2
40°	991.5	1019.0	1072.1	1123.1	1143.5
42.5°	941.5	970.1	1030.2	1085.3	1103.7
45°	889.5	919.1	988.4	1043.5	1065.9
47.5°	834.4	870.1	942.5	999.6	1017.0
50°	774.2	817.1	895.6	950.7	966.0
52.5°	718.1	762.0	846.6	899.7	907.8
55°	656.9	707.9	795.6	837.5	849.7
57.5°	594.7	651.8	739.5	778.3	790.5
60°	534.5	592.6	680.4	716.1	728.3
62.5°	470.2	538.6	618.1	651.8	653.8
65°	409.0	476.4	552.9	573.3	580.4
67.5°	342.7	420.3	487.6	504.9	515.1
70°	283.6	363.1	412.1	440.7	449.8
72.5°	233.6	304.0	342.7	383.5	395.8
75°	186.7	245.8	280.5	324.4	335.6
77.5°	144.8	190.7	229.5	268.3	274.4
80°	104.0	131.6	175.4	205.0	210.1
82.5°	69.4	86.7	124.4	140.8	143.8
85°	35.7	54.1	68.3	79.6	77.5
87.5°	13.3	20.4	23.5	26.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)