

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: P232274

Luminaire Tested: **22RDI-40-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232274  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-10-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RDI-40-UNV-L840-CD1-U  
Description: METALUX 2X2 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (196) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

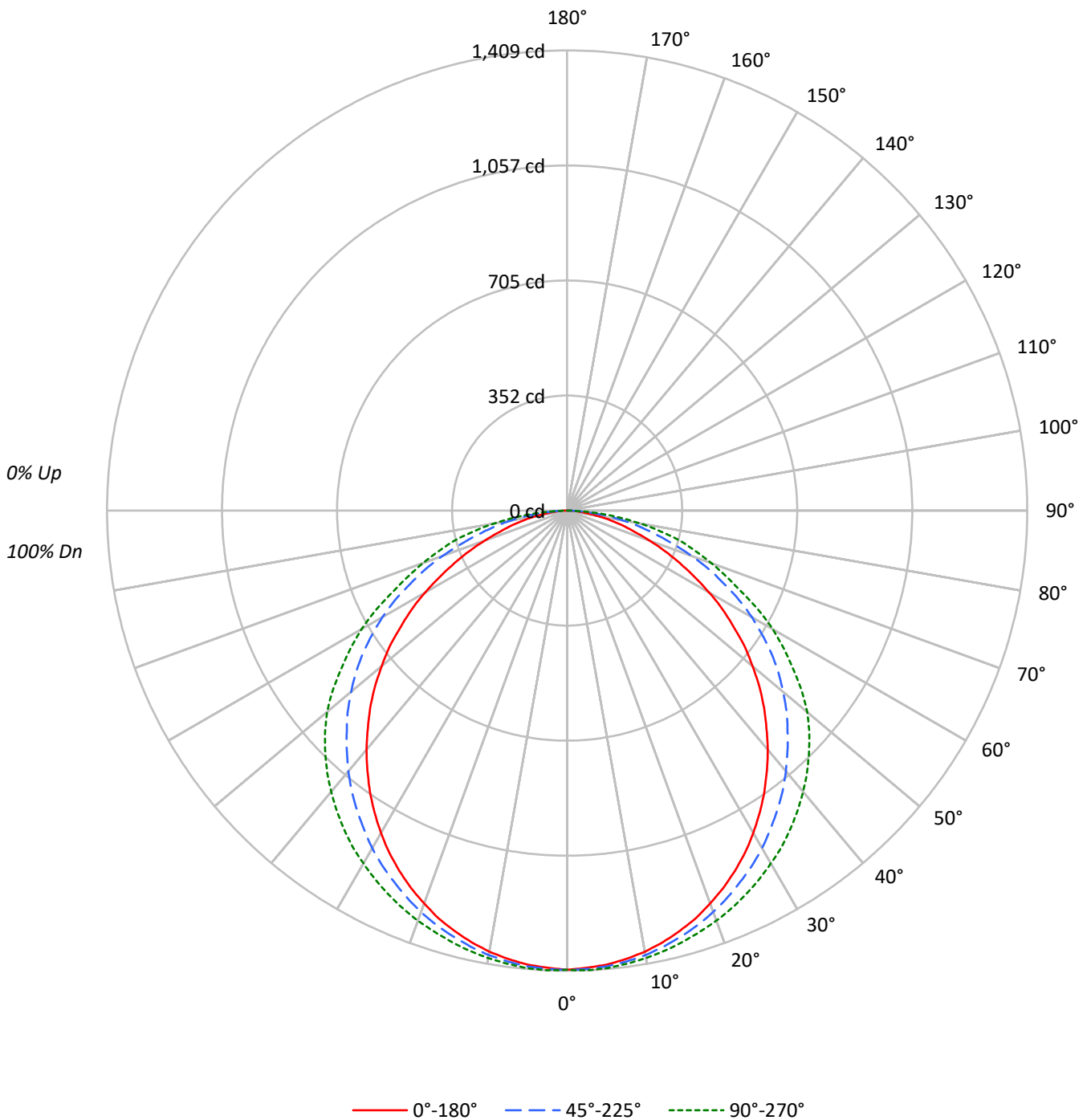
Lumens per Lamp: N/A  
Luminaire Lumens: 4076.0 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 41.8  
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	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	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°	3784	3784	3784
5°	3770	3784	3799
10°	3747	3776	3802
15°	3712	3760	3809
20°	3665	3746	3827
25°	3613	3724	3848
30°	3542	3709	3877
35°	3458	3683	3913
40°	3358	3660	3948
45°	3244	3632	3986
50°	3101	3613	4019
55°	2920	3582	3961
60°	2706	3517	3914
65°	2423	3373	3749
70°	2105	3194	3692
75°	1817	2907	3732
80°	1478	2709	3501
85°	1081	2158	2905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.1	3.3
10°-20°	381.1	9.3
20°-30°	579.0	14.2
30°-40°	701.8	17.2
40°-50°	735.2	18.0
50°-60°	669.6	16.4
60°-70°	505.2	12.4
70°-80°	291.7	7.2
80°-90°	79.4	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°	1093.2	26.8
0°-40°	1795.0	44.0
0°-60°	3199.7	78.5
0°-90°	4076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4076.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1396	1397	1401	1405	1406	132
15°	1332	1338	1350	1362	1367	376
25°	1217	1229	1254	1285	1296	560
35°	1053	1074	1121	1170	1191	658
45°	852	885	954	1023	1047	657
55°	622	674	764	828	844	558
65°	380	444	530	577	589	378
75°	175	219	280	335	359	186
85°	35	47	70	86	94	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1406.2	1406.2	1406.2	1406.2	1406.2
2.5°	1400.8	1402.2	1404.9	1407.6	1408.9
5°	1395.5	1396.8	1400.8	1404.9	1406.2
7.5°	1384.7	1387.4	1392.8	1398.1	1399.5
10°	1371.3	1373.9	1382.0	1388.7	1391.4
12.5°	1353.8	1357.8	1367.2	1376.6	1380.7
15°	1332.3	1337.6	1349.7	1361.8	1367.2
17.5°	1309.4	1314.8	1330.9	1347.1	1352.4
20°	1279.8	1287.9	1308.1	1328.2	1336.3
22.5°	1250.3	1258.3	1282.5	1308.1	1317.5
25°	1216.7	1228.8	1254.3	1285.2	1296.0
27.5°	1180.4	1193.8	1226.1	1259.7	1273.1
30°	1140.0	1156.2	1193.8	1232.8	1247.6
32.5°	1097.0	1115.8	1157.5	1203.2	1222.0
35°	1052.6	1074.1	1121.2	1169.6	1191.1
37.5°	1004.2	1028.4	1083.6	1136.0	1158.8
40°	955.8	981.4	1041.9	1101.0	1123.9
42.5°	903.4	934.3	998.9	1063.4	1087.6
45°	852.3	884.6	954.5	1023.1	1047.3
47.5°	798.6	833.5	911.5	980.0	1005.6
50°	740.7	782.4	863.1	934.3	959.9
52.5°	687.0	730.0	816.0	883.2	904.8
55°	622.4	673.5	763.6	828.1	844.3
57.5°	566.0	617.1	708.5	766.3	786.5
60°	502.8	561.9	653.4	707.1	727.3
62.5°	438.3	502.8	594.2	644.0	661.4
65°	380.5	443.6	529.7	576.7	588.8
67.5°	324.0	388.5	470.5	513.5	527.0
70°	267.5	329.4	406.0	447.7	469.2
72.5°	216.4	275.6	340.1	391.2	411.4
75°	174.8	219.1	279.6	334.7	358.9
77.5°	134.4	169.4	227.2	279.6	293.1
80°	95.4	123.7	174.8	216.4	225.9
82.5°	60.5	84.7	122.3	149.2	161.3
85°	35.0	47.1	69.9	86.0	94.1
87.5°	14.8	20.2	24.2	28.2	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)