

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: P229582

Luminaire Tested: **22RLN-LD5-40-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36050)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-40-UNV-L835-CD1-U  
Description: METALUX 2X2 RLN LED TROFFER  
Light Source: (126)3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4044.0 lumens  
Efficiency: N/A  
Efficacy: 113.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.31  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

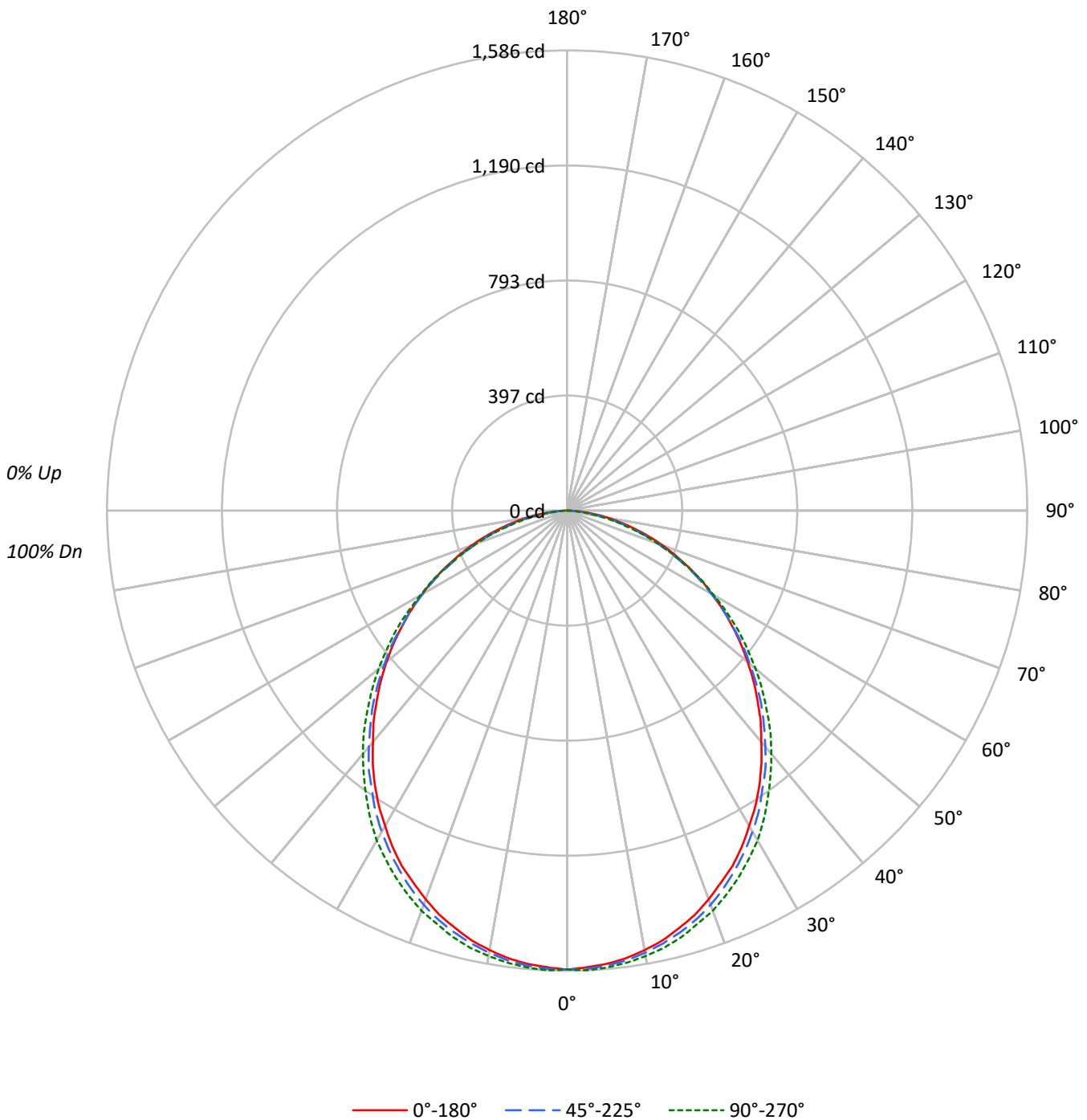
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	5066	5066	5066
5°	5040	5061	5081
10°	5003	5032	5069
15°	4939	4990	5045
20°	4858	4928	5002
25°	4770	4833	4933
30°	4641	4726	4854
35°	4516	4586	4716
40°	4352	4443	4577
45°	4204	4285	4407
50°	4049	4094	4222
55°	3879	3887	4022
60°	3695	3679	3736
65°	3497	3419	3468
70°	3277	3109	3121
75°	2966	2728	2649
80°	2624	2292	2128
85°	2120	1602	1367



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.5	3.7
10°-20°	424.4	10.5
20°-30°	630.8	15.6
30°-40°	736.4	18.2
40°-50°	730.9	18.1
50°-60°	627.3	15.5
60°-70°	450.2	11.1
70°-80°	238.5	5.9
80°-90°	55.9	1.4
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°	1204.7	29.8
0°-40°	1941.1	48.0
0°-60°	3299.3	81.6
0°-90°	4044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4044.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1582	1582	1582	1582	1582	
5°	1568	1570	1574	1579	1581	149
15°	1490	1495	1505	1516	1522	420
25°	1350	1354	1368	1388	1396	621
35°	1155	1159	1173	1199	1206	721
45°	928	932	946	963	973	717
55°	695	691	696	712	720	622
65°	462	450	451	455	458	458
75°	240	228	220	218	214	255
85°	58	50	44	37	37	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1581.9	1581.9	1581.9	1581.9	1581.9
2.5°	1575.5	1576.8	1580.6	1584.5	1585.7
5°	1567.8	1570.4	1574.2	1579.3	1580.6
7.5°	1556.3	1558.8	1564.0	1569.1	1571.6
10°	1538.3	1542.2	1547.3	1556.3	1558.8
12.5°	1517.8	1520.4	1528.1	1538.3	1543.4
15°	1489.6	1494.7	1505.0	1516.5	1521.7
17.5°	1461.4	1465.2	1478.1	1489.6	1493.4
20°	1425.5	1433.2	1446.0	1460.1	1467.8
22.5°	1387.0	1393.5	1408.8	1425.5	1433.2
25°	1349.9	1353.7	1367.8	1388.3	1396.0
27.5°	1305.0	1308.9	1324.2	1344.7	1355.0
30°	1255.0	1261.4	1278.1	1301.2	1312.7
32.5°	1207.6	1212.7	1229.4	1249.9	1261.4
35°	1155.0	1158.9	1173.0	1198.6	1206.3
37.5°	1099.9	1103.7	1123.0	1142.2	1151.2
40°	1040.9	1046.1	1062.7	1081.9	1094.8
42.5°	987.1	989.7	1003.8	1025.5	1037.1
45°	928.1	932.0	946.1	962.7	973.0
47.5°	871.7	870.4	884.5	903.8	911.5
50°	812.7	810.2	821.7	840.9	847.4
52.5°	753.8	749.9	762.7	776.9	782.0
55°	694.8	691.0	696.1	711.5	720.4
57.5°	637.1	630.7	637.1	644.8	652.5
60°	576.9	566.6	574.3	583.3	583.3
62.5°	521.7	510.2	514.1	520.5	524.3
65°	461.5	450.0	451.2	455.1	457.6
67.5°	405.1	393.6	391.0	392.3	393.6
70°	350.0	337.1	332.0	329.5	333.3
72.5°	293.6	280.7	278.2	273.1	274.3
75°	239.7	228.2	220.5	217.9	214.1
77.5°	188.4	178.2	171.8	164.1	162.8
80°	142.3	129.5	124.3	119.2	115.4
82.5°	100.0	88.5	79.5	74.4	70.5
85°	57.7	50.0	43.6	37.2	37.2
87.5°	23.1	17.9	15.4	14.1	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)