

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: P229455

Luminaire Tested: **14RLN-LD5-35-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36058)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-UNV-L830-CD1-U
Description: METALUX 1X4 RLN LED TROFFER
Light Source: (112)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3442.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.31
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

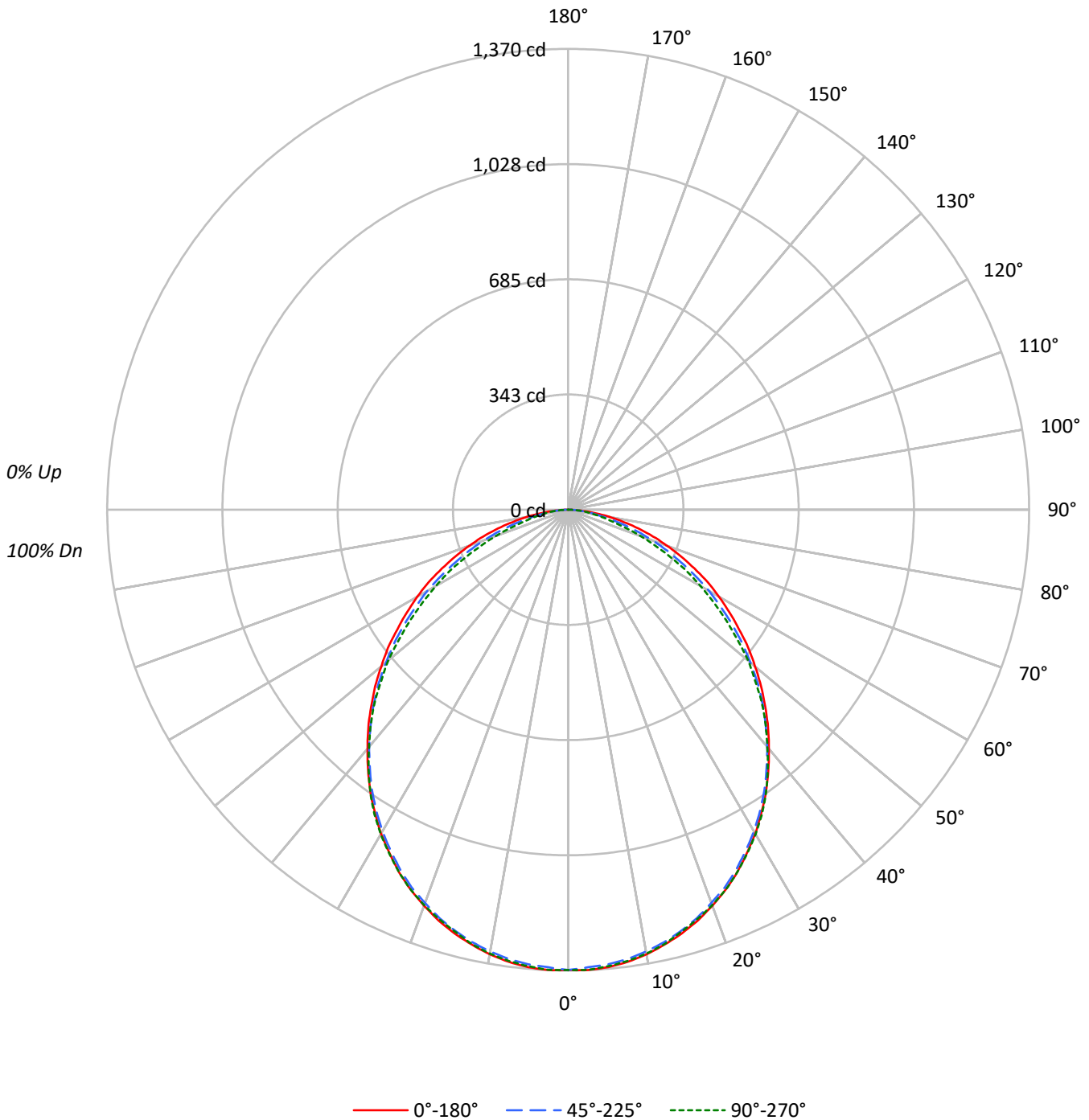
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72					72			
3	91	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53					53			
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	50	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	40	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4611	4611	4611
5°	4617	4589	4609
10°	4592	4564	4584
15°	4550	4523	4532
20°	4492	4461	4486
25°	4421	4390	4421
30°	4327	4294	4334
35°	4217	4182	4217
40°	4081	4048	4051
45°	3946	3893	3881
50°	3800	3702	3662
55°	3642	3493	3364
60°	3488	3260	3061
65°	3298	2947	2697
70°	3075	2617	2266
75°	2819	2191	1751
80°	2429	1642	1510
85°	1960	1372	1407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.8
10°-20°	366.8	10.7
20°-30°	546.0	15.9
30°-40°	638.1	18.5
40°-50°	630.7	18.3
50°-60°	532.5	15.5
60°-70°	368.9	10.7
70°-80°	184.1	5.3
80°-90°	45.7	1.3
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°	1042.0	30.3
0°-40°	1680.1	48.8
0°-60°	2843.3	82.6
0°-90°	3442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1365	1362	1357	1363	1362	130
15°	1304	1302	1297	1302	1299	368
25°	1189	1186	1181	1188	1189	547
35°	1025	1020	1017	1024	1025	640
45°	828	819	817	815	814	639
55°	620	609	595	582	573	555
65°	414	394	370	350	338	410
75°	216	197	168	146	134	229
85°	51	39	36	36	36	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.5	1368.5	1368.5	1368.5	1368.5
2.5°	1370.1	1367.6	1361.7	1368.5	1369.3
5°	1365.1	1362.5	1356.6	1363.4	1362.5
7.5°	1355.8	1352.4	1347.3	1353.2	1353.2
10°	1342.2	1339.7	1333.8	1340.5	1339.7
12.5°	1324.5	1322.8	1316.9	1323.6	1322.8
15°	1304.2	1302.5	1296.6	1302.5	1299.1
17.5°	1280.5	1279.6	1272.9	1277.1	1276.3
20°	1252.6	1250.9	1244.1	1252.6	1250.9
22.5°	1223.0	1219.6	1215.4	1222.1	1223.0
25°	1189.2	1185.8	1180.7	1188.3	1189.2
27.5°	1150.2	1147.7	1142.6	1153.6	1151.9
30°	1112.2	1109.6	1103.7	1113.0	1113.9
32.5°	1068.2	1065.7	1061.4	1070.7	1072.4
35°	1025.1	1020.0	1016.6	1024.2	1025.1
37.5°	976.9	971.8	968.4	976.0	974.3
40°	927.8	921.9	920.2	926.1	921.0
42.5°	879.6	872.0	868.6	872.0	868.6
45°	828.0	818.7	817.0	815.3	814.5
47.5°	778.1	768.0	763.7	757.8	753.6
50°	724.8	713.8	706.2	700.3	698.6
52.5°	674.9	662.2	651.2	646.2	632.6
55°	619.9	609.0	594.6	581.9	572.6
57.5°	568.4	554.0	537.1	523.5	511.7
60°	517.6	499.0	483.8	462.6	454.2
62.5°	467.7	446.6	425.4	402.6	398.4
65°	413.6	394.1	369.6	350.1	338.3
67.5°	362.0	341.7	318.0	290.9	279.9
70°	312.1	290.1	265.6	239.4	230.0
72.5°	263.9	241.9	216.5	188.6	177.6
75°	216.5	197.1	168.3	145.5	134.5
77.5°	168.3	152.2	124.3	105.7	104.0
80°	125.2	110.8	84.6	80.3	77.8
82.5°	86.3	72.7	60.0	57.5	55.8
85°	50.7	38.9	35.5	35.5	36.4
87.5°	19.5	16.9	16.9	16.9	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)