

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: P229647

Luminaire Tested: **22RLN-LD5-35-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36063)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-35-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3290.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.21 / 1.29
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

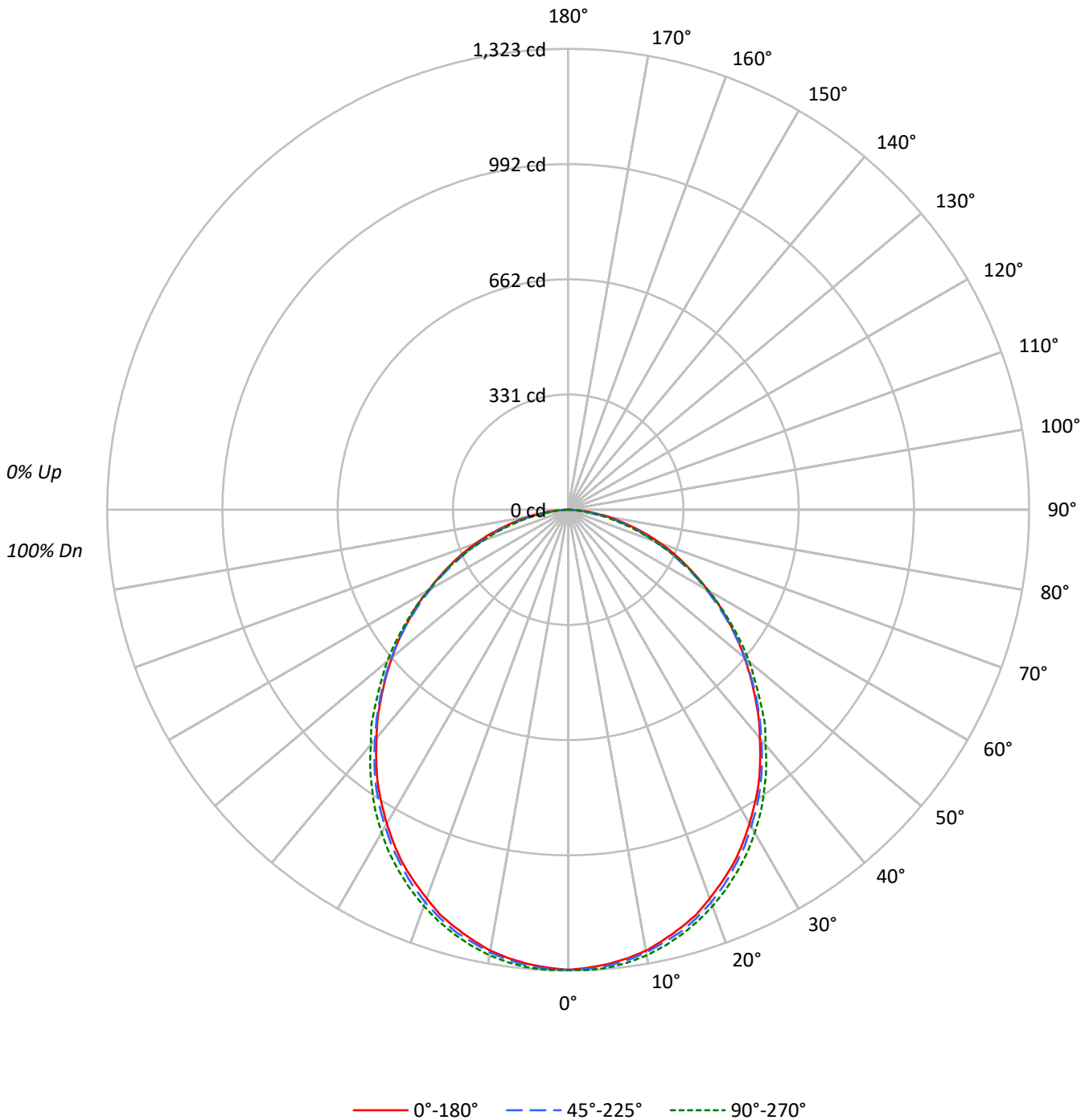
Input Watts (W): 30.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4231	4231	4231
5°	4209	4225	4242
10°	4181	4197	4225
15°	4122	4156	4184
20°	4047	4087	4128
25°	3963	3993	4053
30°	3847	3885	3960
35°	3730	3763	3836
40°	3578	3607	3684
45°	3432	3455	3532
50°	3287	3304	3380
55°	3136	3126	3183
60°	2969	2925	2980
65°	2808	2705	2769
70°	2629	2487	2439
75°	2386	2198	2113
80°	2152	1872	1747
85°	1679	1304	1117



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.8
10°-20°	353.0	10.7
20°-30°	521.2	15.8
30°-40°	602.7	18.3
40°-50°	591.1	18.0
50°-60°	502.8	15.3
60°-70°	358.1	10.9
70°-80°	191.0	5.8
80°-90°	45.4	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°	998.9	30.4
0°-40°	1601.6	48.7
0°-60°	2695.4	81.9
0°-90°	3290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1309	1311	1314	1318	1319	124
15°	1243	1245	1253	1260	1262	350
25°	1122	1123	1130	1142	1147	516
35°	954	951	962	978	981	595
45°	758	756	763	776	780	585
55°	562	556	560	567	570	503
65°	370	359	357	359	365	367
75°	193	183	178	174	171	206
85°	46	41	36	30	30	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.1	1321.1	1321.1	1321.1	1321.1
2.5°	1316.0	1317.7	1319.4	1322.8	1322.8
5°	1309.3	1311.0	1314.3	1317.7	1319.4
7.5°	1299.1	1299.1	1304.2	1307.6	1311.0
10°	1285.6	1287.3	1290.7	1295.7	1299.1
12.5°	1265.3	1268.7	1272.1	1278.8	1282.2
15°	1243.3	1245.0	1253.4	1260.2	1261.9
17.5°	1219.6	1219.6	1228.1	1234.8	1238.2
20°	1187.5	1190.9	1199.3	1207.8	1211.2
22.5°	1155.3	1158.7	1167.2	1175.6	1180.7
25°	1121.5	1123.2	1130.0	1141.8	1146.9
27.5°	1082.6	1086.0	1092.7	1104.6	1111.4
30°	1040.3	1043.7	1050.5	1064.0	1070.8
32.5°	998.0	1001.4	1008.2	1021.7	1028.5
35°	954.0	950.7	962.5	977.7	981.1
37.5°	905.0	906.7	913.4	927.0	933.7
40°	855.9	855.9	862.7	877.9	881.3
42.5°	808.6	806.9	813.6	827.2	835.6
45°	757.8	756.1	762.9	776.4	779.8
47.5°	708.8	705.4	712.1	724.0	727.4
50°	659.7	656.3	663.1	673.2	678.3
52.5°	612.3	605.6	610.7	619.1	624.2
55°	561.6	556.5	559.9	566.7	570.1
57.5°	515.9	505.8	507.5	514.2	517.6
60°	463.5	455.0	456.7	463.5	465.2
62.5°	416.1	407.7	407.7	409.4	412.7
65°	370.5	358.6	356.9	358.6	365.4
67.5°	326.5	314.6	311.2	311.2	312.9
70°	280.8	269.0	265.6	263.9	260.5
72.5°	238.5	223.3	221.6	216.5	218.2
75°	192.8	182.7	177.6	174.2	170.8
77.5°	152.2	143.8	137.0	131.9	131.9
80°	116.7	104.9	101.5	94.7	94.7
82.5°	77.8	72.7	66.0	60.9	59.2
85°	45.7	40.6	35.5	30.4	30.4
87.5°	16.9	13.5	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)