

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: P229672

Luminaire Tested: **22RLN-LD5-40-UNV-L935-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229672
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-LD5-40-UNV-L935-CD1-SVPD1-U
Description: METALUX 2X2 RLN LED TROFFER WITH SENSOR
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3354.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

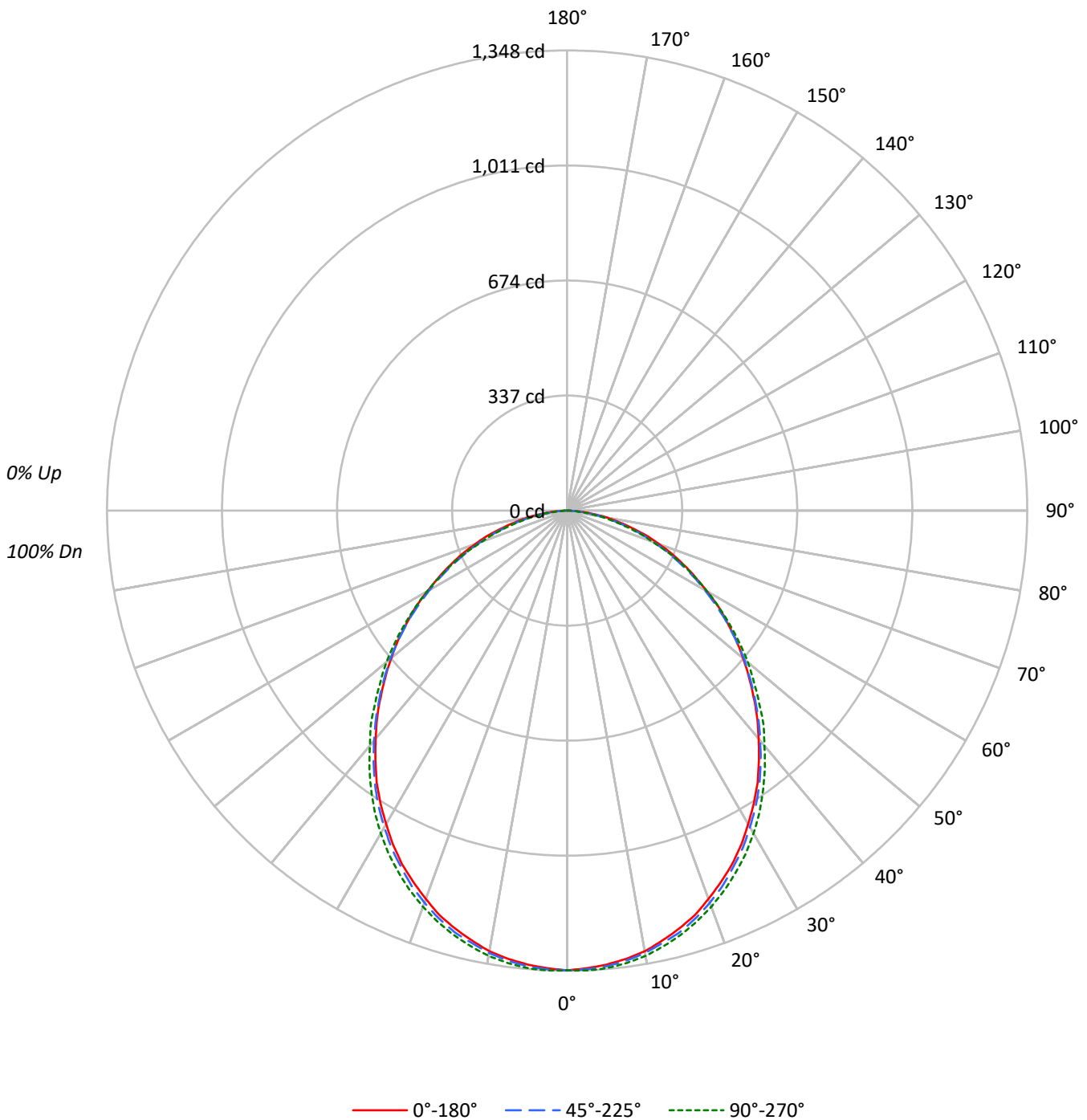
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	58	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°	4313	4313	4313
5°	4291	4308	4324
10°	4262	4279	4307
15°	4202	4237	4265
20°	4126	4167	4208
25°	4040	4070	4132
30°	3922	3960	4037
35°	3803	3836	3910
40°	3648	3677	3756
45°	3499	3522	3601
50°	3351	3368	3445
55°	3197	3187	3245
60°	3026	2982	3037
65°	2862	2758	2823
70°	2681	2535	2487
75°	2433	2241	2156
80°	2195	1909	1782
85°	1712	1330	1139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.8
10°-20°	359.8	10.7
20°-30°	531.3	15.8
30°-40°	614.4	18.3
40°-50°	602.6	18.0
50°-60°	512.5	15.3
60°-70°	365.1	10.9
70°-80°	194.7	5.8
80°-90°	46.3	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°	1018.3	30.4
0°-40°	1632.7	48.7
0°-60°	2747.9	81.9
0°-90°	3354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3354.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1347	1347	1347	1347	1347	
5°	1335	1336	1340	1343	1345	127
15°	1268	1269	1278	1285	1286	357
25°	1143	1145	1152	1164	1169	526
35°	973	969	981	997	1000	607
45°	773	771	778	792	795	597
55°	572	567	571	578	581	513
65°	378	366	364	366	372	375
75°	197	186	181	178	174	210
85°	47	41	36	31	31	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.8	1346.8	1346.8	1346.8	1346.8
2.5°	1341.6	1343.4	1345.1	1348.5	1348.5
5°	1334.7	1336.5	1339.9	1343.4	1345.1
7.5°	1324.4	1324.4	1329.6	1333.0	1336.5
10°	1310.6	1312.3	1315.8	1320.9	1324.4
12.5°	1289.9	1293.3	1296.8	1303.7	1307.1
15°	1267.5	1269.2	1277.8	1284.7	1286.5
17.5°	1243.3	1243.3	1252.0	1258.9	1262.3
20°	1210.6	1214.0	1222.6	1231.3	1234.7
22.5°	1177.8	1181.3	1189.9	1198.5	1203.7
25°	1143.3	1145.0	1151.9	1164.0	1169.2
27.5°	1103.7	1107.1	1114.0	1126.1	1133.0
30°	1060.5	1064.0	1070.9	1084.7	1091.6
32.5°	1017.4	1020.9	1027.8	1041.6	1048.5
35°	972.6	969.1	981.2	996.7	1000.2
37.5°	922.6	924.3	931.2	945.0	951.9
40°	872.6	872.6	879.5	895.0	898.4
42.5°	824.3	822.6	829.5	843.3	851.9
45°	772.6	770.8	777.7	791.5	795.0
47.5°	722.6	719.1	726.0	738.1	741.5
50°	672.5	669.1	676.0	686.3	691.5
52.5°	624.3	617.4	622.5	631.2	636.3
55°	572.5	567.3	570.8	577.7	581.1
57.5°	526.0	515.6	517.3	524.2	527.7
60°	472.5	463.9	465.6	472.5	474.2
62.5°	424.2	415.6	415.6	417.3	420.8
65°	377.7	365.6	363.9	365.6	372.5
67.5°	332.8	320.8	317.3	317.3	319.0
70°	286.3	274.2	270.7	269.0	265.6
72.5°	243.1	227.6	225.9	220.7	222.5
75°	196.6	186.2	181.1	177.6	174.2
77.5°	155.2	146.6	139.7	134.5	134.5
80°	119.0	106.9	103.5	96.6	96.6
82.5°	79.3	74.2	67.3	62.1	60.4
85°	46.6	41.4	36.2	31.0	31.0
87.5°	17.2	13.8	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)