

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: P229599

Luminaire Tested: **22RLN-LD5-35-UNV-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229599
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-LD5-35-UNV-L935-CD1-U
Description: METALUX 2X2 RLN LED TROFFER
Light Source: (126)3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3063.0 lumens
Efficiency: N/A
Efficacy: 100.2 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

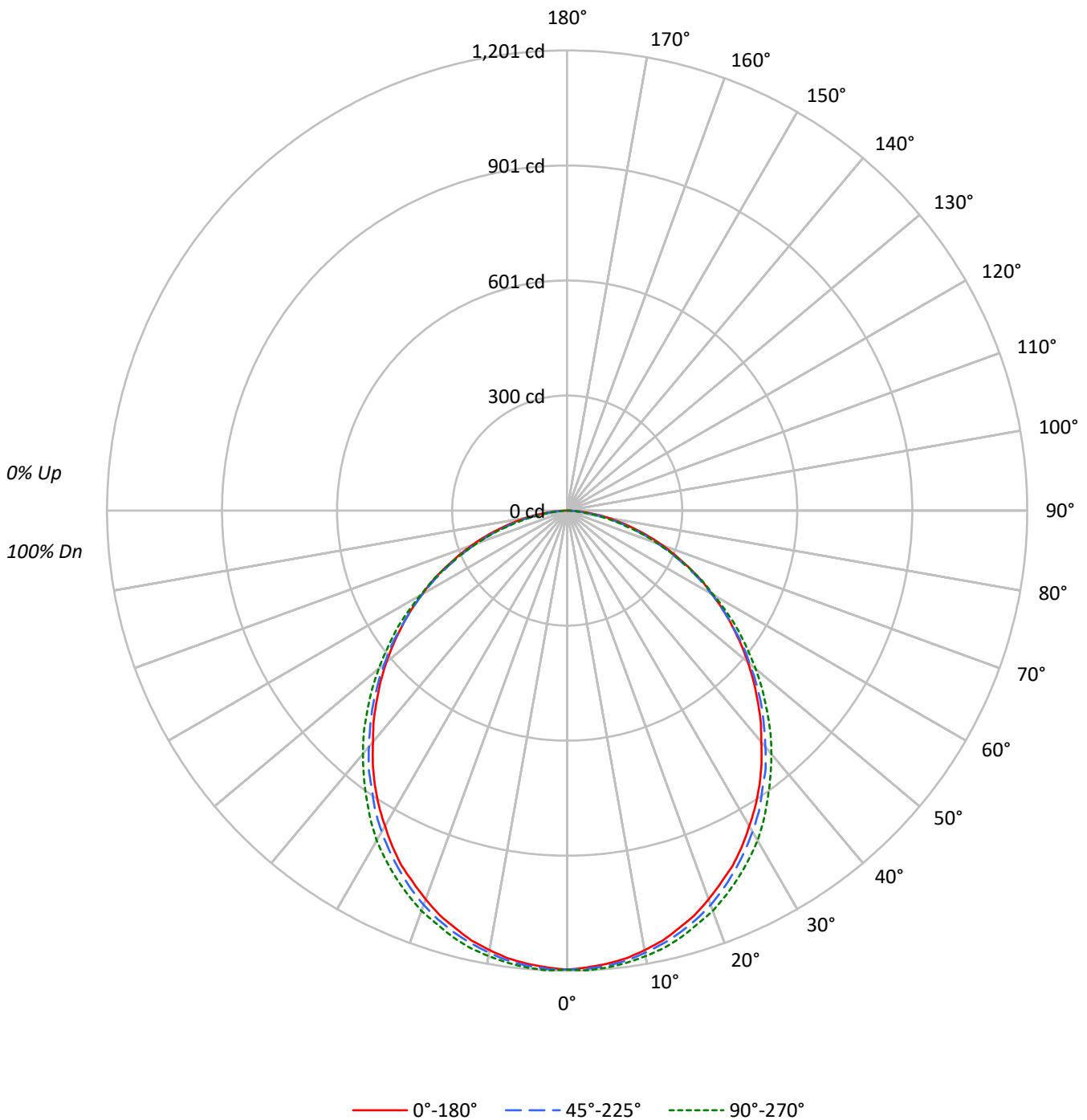
Input Watts (W): 30.57
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3837	3837	3837
5°	3818	3833	3849
10°	3789	3811	3840
15°	3741	3779	3821
20°	3680	3733	3789
25°	3613	3661	3737
30°	3515	3580	3677
35°	3420	3473	3572
40°	3296	3365	3467
45°	3184	3246	3338
50°	3067	3101	3198
55°	2939	2944	3047
60°	2798	2786	2830
65°	2649	2590	2627
70°	2482	2355	2363
75°	2247	2066	2007
80°	1988	1737	1612
85°	1606	1213	1036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.7
10°-20°	321.5	10.5
20°-30°	477.8	15.6
30°-40°	557.8	18.2
40°-50°	553.6	18.1
50°-60°	475.1	15.5
60°-70°	341.0	11.1
70°-80°	180.7	5.9
80°-90°	42.3	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°	912.5	29.8
0°-40°	1470.2	48.0
0°-60°	2499.0	81.6
0°-90°	3063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1188	1189	1192	1196	1197	113
15°	1128	1132	1140	1149	1152	318
25°	1022	1025	1036	1052	1057	470
35°	875	878	888	908	914	546
45°	703	706	717	729	737	543
55°	526	523	527	539	546	471
65°	350	341	342	345	347	347
75°	182	173	167	165	162	193
85°	44	38	33	28	28	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.2	1198.2	1198.2	1198.2	1198.2
2.5°	1193.3	1194.3	1197.2	1200.1	1201.1
5°	1187.5	1189.4	1192.3	1196.2	1197.2
7.5°	1178.7	1180.7	1184.6	1188.5	1190.4
10°	1165.1	1168.1	1171.9	1178.7	1180.7
12.5°	1149.6	1151.6	1157.4	1165.1	1169.0
15°	1128.3	1132.1	1139.9	1148.6	1152.5
17.5°	1106.9	1109.8	1119.5	1128.3	1131.2
20°	1079.7	1085.5	1095.2	1105.9	1111.7
22.5°	1050.6	1055.4	1067.1	1079.7	1085.5
25°	1022.4	1025.3	1036.0	1051.5	1057.4
27.5°	988.4	991.3	1003.0	1018.5	1026.3
30°	950.6	955.4	968.0	985.5	994.3
32.5°	914.6	918.5	931.1	946.7	955.4
35°	874.8	877.7	888.4	907.8	913.7
37.5°	833.1	836.0	850.6	865.1	871.9
40°	788.4	792.3	804.9	819.5	829.2
42.5°	747.6	749.6	760.3	776.8	785.5
45°	703.0	705.9	716.6	729.2	737.0
47.5°	660.3	659.3	670.0	684.5	690.4
50°	615.6	613.6	622.4	636.9	641.8
52.5°	570.9	568.0	577.7	588.4	592.3
55°	526.3	523.3	527.2	538.9	545.7
57.5°	482.6	477.7	482.6	488.4	494.2
60°	436.9	429.2	435.0	441.8	441.8
62.5°	395.2	386.4	389.4	394.2	397.1
65°	349.5	340.8	341.8	344.7	346.6
67.5°	306.8	298.1	296.1	297.1	298.1
70°	265.1	255.4	251.5	249.5	252.4
72.5°	222.3	212.6	210.7	206.8	207.8
75°	181.6	172.8	167.0	165.1	162.2
77.5°	142.7	135.0	130.1	124.3	123.3
80°	107.8	98.1	94.2	90.3	87.4
82.5°	75.7	67.0	60.2	56.3	53.4
85°	43.7	37.9	33.0	28.2	28.2
87.5°	17.5	13.6	11.7	10.7	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)