

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: P296525

Luminaire Tested: **22RLN-LD5-40-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-40-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3426.0 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

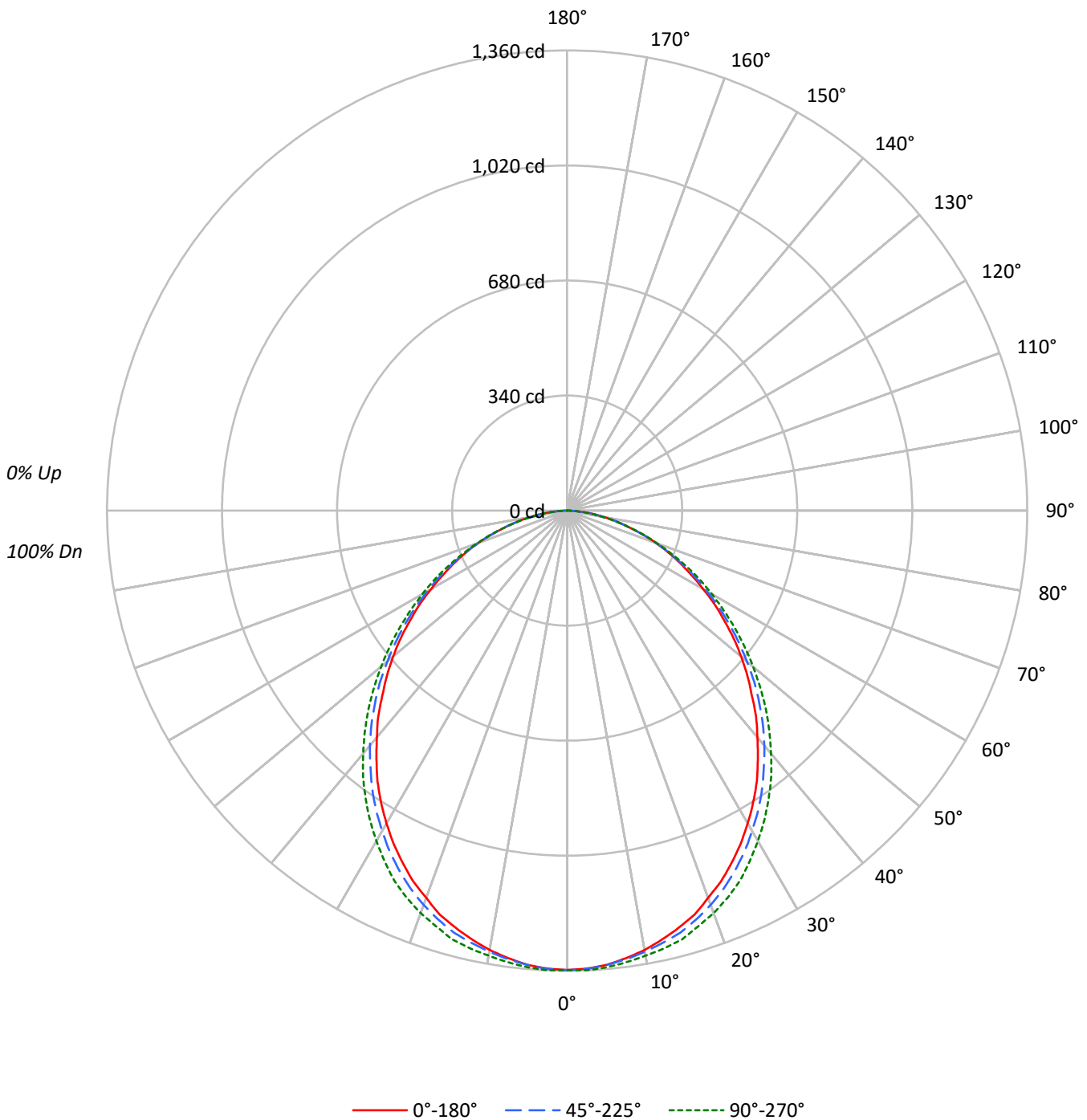
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
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°	3654	3654	3654
5°	3640	3640	3659
10°	3603	3617	3650
15°	3555	3598	3655
20°	3488	3551	3625
25°	3413	3484	3586
30°	3317	3397	3503
35°	3210	3300	3412
40°	3072	3186	3294
45°	2938	3055	3159
50°	2810	2903	3003
55°	2661	2741	2837
60°	2500	2565	2657
65°	2350	2393	2469
70°	2190	2190	2231
75°	1954	1954	1954
80°	1720	1667	1667
85°	1371	1318	1213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	3.7
10°-20°	364.1	10.6
20°-30°	540.9	15.8
30°-40°	627.7	18.3
40°-50°	618.1	18.0
50°-60°	523.1	15.3
60°-70°	373.0	10.9
70°-80°	200.5	5.9
80°-90°	50.5	1.5
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°	1033.1	30.2
0°-40°	1660.8	48.5
0°-60°	2802.0	81.8
0°-90°	3426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3426.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1348	1348	1348	1353	1355	128
15°	1276	1279	1291	1303	1312	360
25°	1150	1153	1174	1196	1208	529
35°	977	979	1004	1028	1039	610
45°	772	777	803	822	830	597
55°	567	569	584	600	605	508
65°	369	369	376	383	388	366
75°	188	186	188	188	188	202
85°	44	43	43	39	39	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.0	1358.0	1358.0	1358.0	1358.0
2.5°	1354.6	1354.6	1356.3	1358.0	1359.7
5°	1347.7	1347.7	1347.7	1352.9	1354.6
7.5°	1334.1	1335.8	1337.5	1342.6	1346.0
10°	1318.7	1320.4	1323.8	1332.4	1335.8
12.5°	1298.2	1303.3	1308.5	1320.4	1325.5
15°	1276.0	1279.4	1291.4	1303.3	1311.9
17.5°	1252.1	1253.8	1267.5	1284.5	1288.0
20°	1217.9	1223.0	1240.1	1257.2	1265.8
22.5°	1187.2	1190.6	1209.4	1231.6	1238.4
25°	1149.6	1153.0	1173.5	1195.7	1207.7
27.5°	1110.3	1113.7	1135.9	1159.8	1168.4
30°	1067.6	1071.0	1093.2	1118.8	1127.4
32.5°	1023.2	1026.6	1050.5	1072.7	1084.7
35°	977.1	978.8	1004.4	1028.3	1038.6
37.5°	925.8	931.0	954.9	978.8	990.7
40°	874.6	879.7	907.0	929.2	937.8
42.5°	826.8	833.6	855.8	876.3	884.8
45°	772.1	777.2	802.8	821.6	830.2
47.5°	722.6	727.7	749.9	768.7	773.8
50°	671.3	674.7	693.5	710.6	717.4
52.5°	620.1	621.8	638.9	655.9	661.1
55°	567.1	568.8	584.2	599.6	604.7
57.5°	517.6	517.6	531.2	543.2	548.3
60°	464.6	464.6	476.6	488.5	493.7
62.5°	415.1	415.1	427.0	435.6	442.4
65°	369.0	369.0	375.8	382.6	387.8
67.5°	324.6	319.4	326.3	334.8	333.1
70°	278.4	273.3	278.4	281.8	283.6
72.5°	232.3	228.9	232.3	234.0	237.4
75°	187.9	186.2	187.9	187.9	187.9
77.5°	150.3	145.2	148.6	146.9	145.2
80°	111.0	109.3	107.6	105.9	107.6
82.5°	76.9	75.2	75.2	71.7	71.7
85°	44.4	42.7	42.7	39.3	39.3
87.5°	17.1	17.1	15.4	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)