

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: P296517

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296517  
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-LD5-35-UNV-L92765-W2A1-U-4000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3127.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

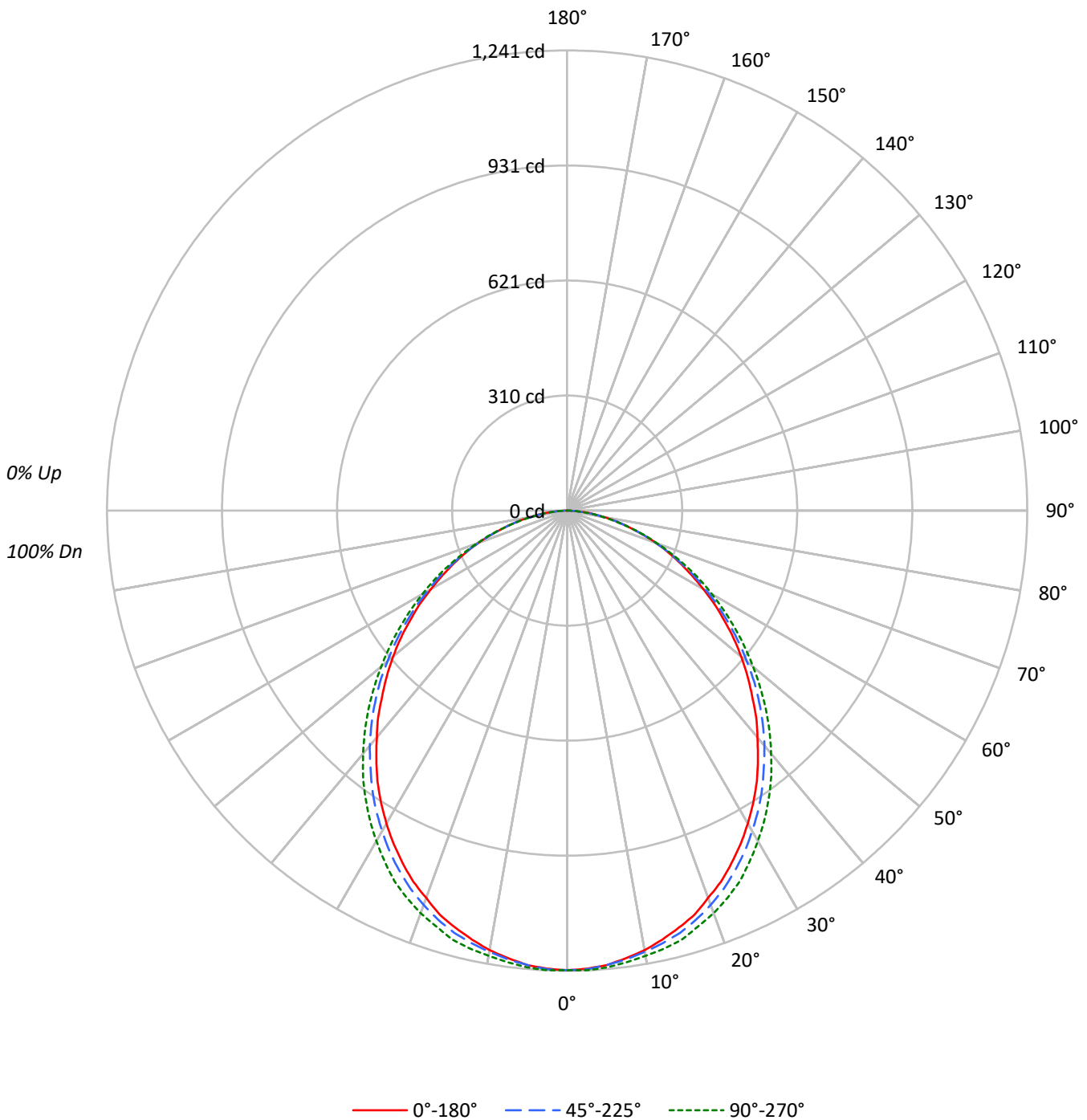
Input Watts (W): 28.272  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3335	3335	3335
5°	3323	3323	3340
10°	3289	3302	3331
15°	3244	3284	3336
20°	3183	3241	3308
25°	3116	3180	3273
30°	3028	3100	3197
35°	2930	3011	3114
40°	2804	2908	3007
45°	2682	2789	2884
50°	2565	2650	2741
55°	2428	2502	2589
60°	2282	2341	2425
65°	2145	2184	2253
70°	1999	1999	2036
75°	1783	1783	1783
80°	1570	1522	1522
85°	1250	1204	1108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.9	3.7
10°-20°	332.3	10.6
20°-30°	493.7	15.8
30°-40°	572.9	18.3
40°-50°	564.2	18.0
50°-60°	477.4	15.3
60°-70°	340.5	10.9
70°-80°	183.0	5.9
80°-90°	46.1	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°	942.9	30.2
0°-40°	1515.9	48.5
0°-60°	2557.4	81.8
0°-90°	3127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1230	1230	1230	1235	1236	117
15°	1165	1168	1179	1190	1197	328
25°	1049	1052	1071	1091	1102	483
35°	892	893	917	939	948	556
45°	705	709	733	750	758	545
55°	518	519	533	547	552	464
65°	337	337	343	349	354	334
75°	172	170	172	172	172	184
85°	40	39	39	36	36	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1239.5	1239.5	1239.5	1239.5	1239.5
2.5°	1236.4	1236.4	1237.9	1239.5	1241.0
5°	1230.1	1230.1	1230.1	1234.8	1236.4
7.5°	1217.6	1219.2	1220.8	1225.4	1228.6
10°	1203.6	1205.2	1208.3	1216.1	1219.2
12.5°	1184.9	1189.6	1194.3	1205.2	1209.9
15°	1164.6	1167.8	1178.7	1189.6	1197.4
17.5°	1142.8	1144.4	1156.8	1172.4	1175.6
20°	1111.6	1116.3	1131.9	1147.5	1155.3
22.5°	1083.6	1086.7	1103.8	1124.1	1130.3
25°	1049.3	1052.4	1071.1	1091.4	1102.3
27.5°	1013.4	1016.5	1036.8	1058.6	1066.4
30°	974.4	977.5	997.8	1021.2	1029.0
32.5°	933.9	937.0	958.8	979.1	990.0
35°	891.8	893.4	916.7	938.6	947.9
37.5°	845.0	849.7	871.5	893.4	904.3
40°	798.3	802.9	827.9	848.1	855.9
42.5°	754.6	760.8	781.1	799.8	807.6
45°	704.7	709.4	732.8	749.9	757.7
47.5°	659.5	664.2	684.4	701.6	706.3
50°	612.7	615.8	633.0	648.6	654.8
52.5°	565.9	567.5	583.1	598.7	603.4
55°	517.6	519.2	533.2	547.2	551.9
57.5°	472.4	472.4	484.9	495.8	500.5
60°	424.1	424.1	435.0	445.9	450.6
62.5°	378.9	378.9	389.8	397.6	403.8
65°	336.8	336.8	343.0	349.2	353.9
67.5°	296.2	291.5	297.8	305.6	304.0
70°	254.1	249.5	254.1	257.2	258.8
72.5°	212.0	208.9	212.0	213.6	216.7
75°	171.5	169.9	171.5	171.5	171.5
77.5°	137.2	132.5	135.6	134.1	132.5
80°	101.3	99.8	98.2	96.7	98.2
82.5°	70.2	68.6	68.6	65.5	65.5
85°	40.5	39.0	39.0	35.9	35.9
87.5°	15.6	15.6	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)