

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: P295657

Luminaire Tested: **14RLN-LD5-35-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-35-UNV-L92765-W2A1-U-3500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3050.0 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

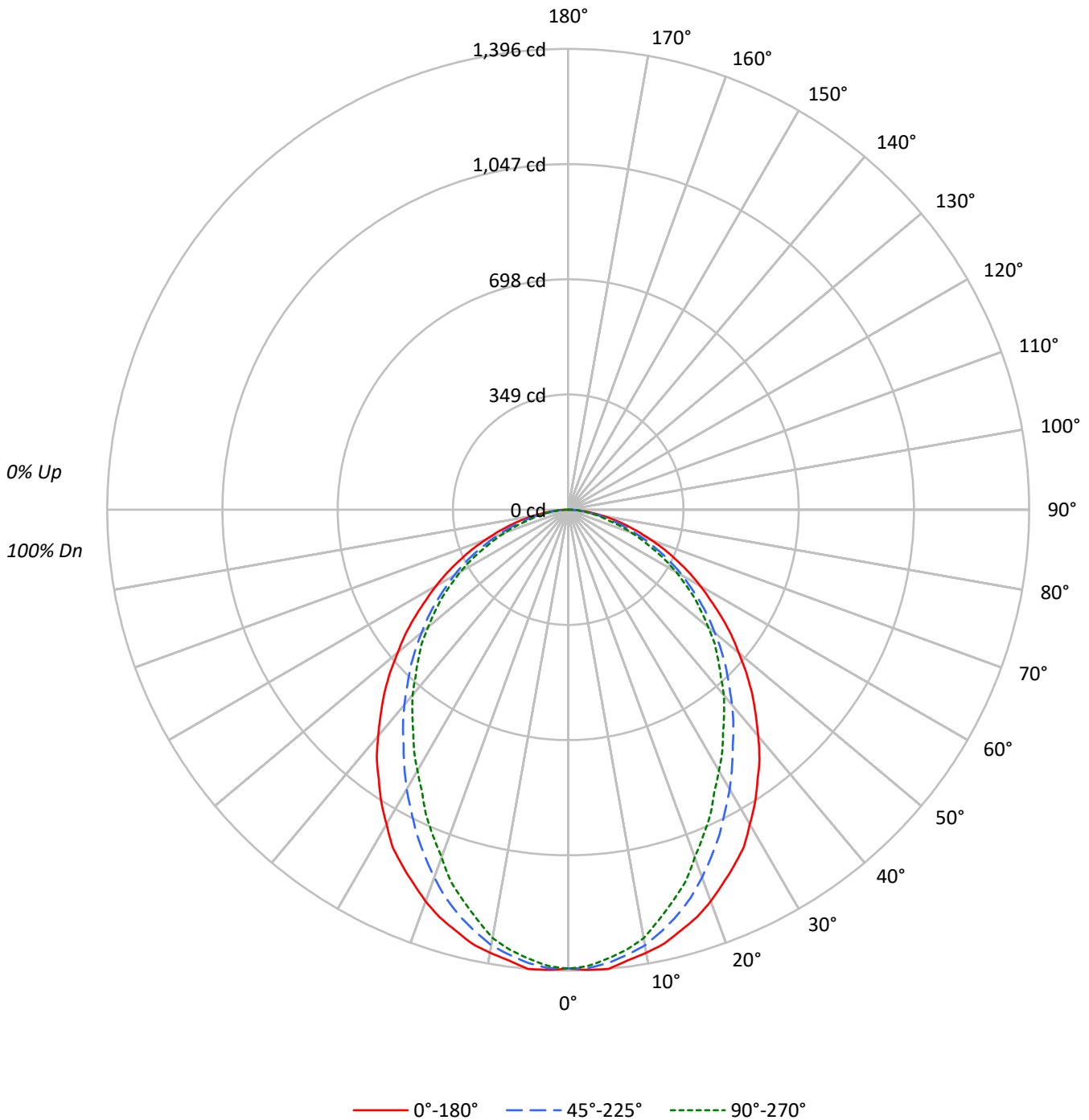
Input Watts (W): 33.666  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3741	3741	3741
5°	3772	3724	3689
10°	3724	3661	3601
15°	3675	3546	3417
20°	3615	3394	3210
25°	3531	3221	3026
30°	3419	3038	2838
35°	3284	2857	2688
40°	3145	2711	2575
45°	2995	2569	2442
50°	2821	2427	2319
55°	2659	2291	2194
60°	2489	2150	2032
65°	2305	1985	1821
70°	2098	1784	1611
75°	1888	1594	1313
80°	1618	1297	1238
85°	1312	1232	1232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	4.3
10°-20°	357.2	11.7
20°-30°	501.4	16.4
30°-40°	556.1	18.2
40°-50°	533.8	17.5
50°-60°	447.4	14.7
60°-70°	314.1	10.3
70°-80°	164.0	5.4
80°-90°	45.9	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°	988.7	32.4
0°-40°	1544.8	50.6
0°-60°	2526.1	82.8
0°-90°	3050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3050.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1396	1378	1378	1370	1366	132
15°	1319	1296	1273	1239	1226	372
25°	1189	1147	1085	1032	1019	547
35°	1000	944	870	827	818	626
45°	787	727	675	649	642	606
55°	567	524	488	473	468	507
65°	362	338	312	292	286	360
75°	182	168	153	135	126	193
85°	42	40	40	40	40	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1390.1	1390.1	1390.1	1390.1	1390.1
2.5°	1395.2	1387.5	1390.1	1390.1	1383.6
5°	1396.5	1378.5	1378.5	1369.5	1365.6
7.5°	1377.2	1363.0	1360.4	1348.8	1345.0
10°	1363.0	1348.8	1339.8	1324.4	1317.9
12.5°	1346.3	1324.4	1307.6	1281.9	1271.5
15°	1319.2	1296.0	1272.8	1239.3	1226.5
17.5°	1294.7	1267.7	1232.9	1195.5	1181.4
20°	1262.5	1230.3	1185.2	1133.7	1120.8
22.5°	1225.2	1187.8	1135.0	1079.6	1069.3
25°	1189.1	1146.6	1084.7	1031.9	1019.0
27.5°	1151.7	1100.2	1029.3	972.7	959.8
30°	1100.2	1047.4	977.8	922.4	913.4
32.5°	1052.5	999.7	923.7	878.6	868.3
35°	999.7	944.3	869.6	827.1	818.1
37.5°	952.0	887.6	821.9	780.7	775.6
40°	895.4	837.4	771.7	740.8	733.0
42.5°	840.0	782.0	720.2	693.1	684.1
45°	787.1	726.6	675.1	649.3	641.6
47.5°	731.8	676.4	627.4	606.8	601.6
50°	673.8	624.8	579.7	560.4	554.0
52.5°	622.2	572.0	534.6	516.6	508.9
55°	566.8	524.3	488.3	472.8	467.7
57.5°	511.5	476.7	441.9	427.7	420.0
60°	462.5	427.7	399.4	382.6	377.5
62.5°	412.3	382.6	355.6	340.1	333.7
65°	362.0	337.5	311.8	292.4	286.0
67.5°	315.6	288.6	268.0	251.2	244.8
70°	266.7	247.4	226.7	211.3	204.8
72.5°	221.6	207.4	189.4	172.6	166.2
75°	181.6	167.5	153.3	135.3	126.3
77.5°	141.7	132.7	118.5	103.1	103.1
80°	104.4	99.2	83.7	81.2	79.9
82.5°	72.1	69.6	60.5	59.3	59.3
85°	42.5	39.9	39.9	39.9	39.9
87.5°	18.0	19.3	20.6	20.6	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)