

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: P295662

Luminaire Tested: **14RLN-LD5-35-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295662  
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-5700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3361.0 lumens  
Efficiency: N/A  
Efficacy: 97.1 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

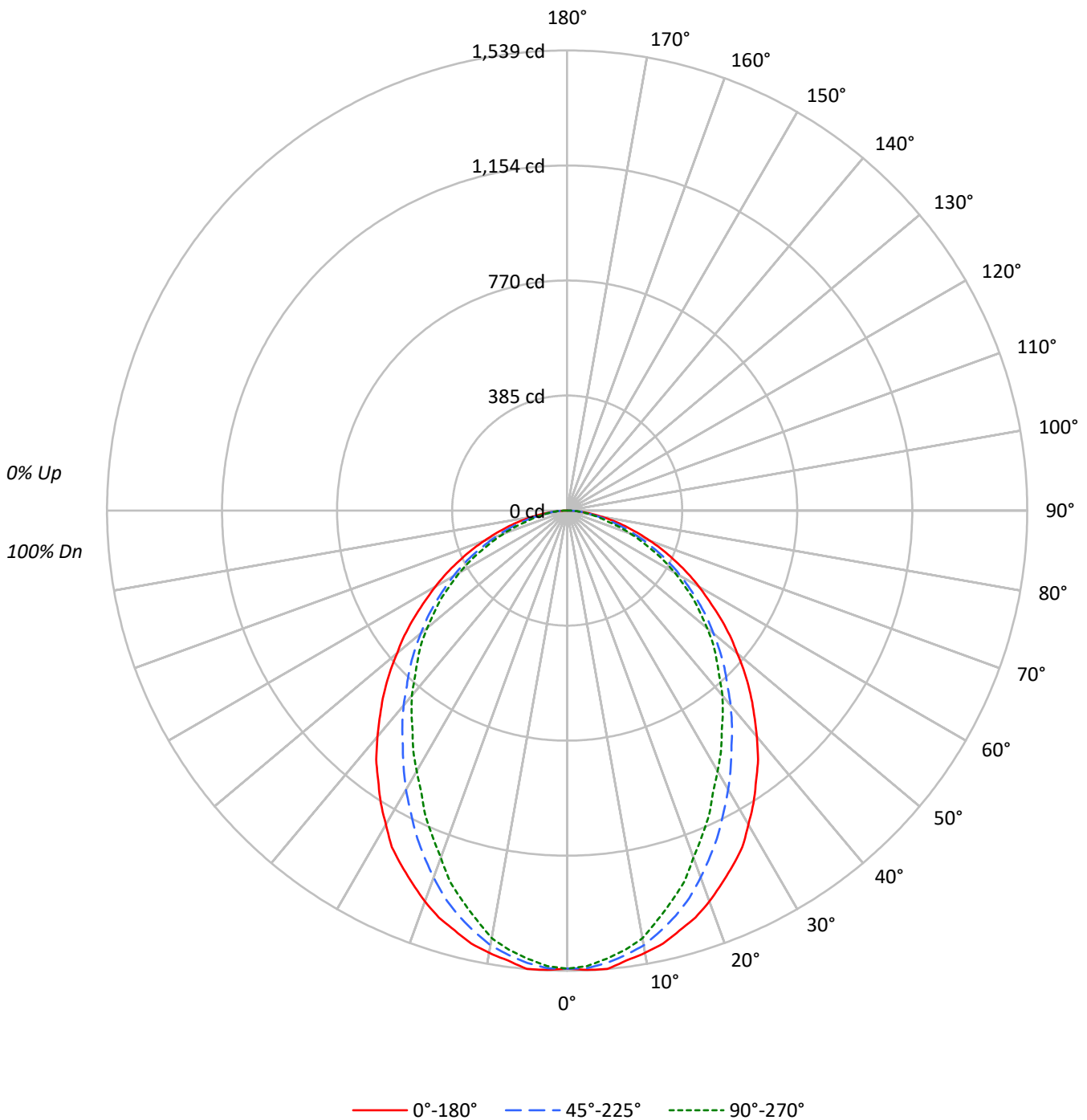
Input Watts (W): 34.596  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4122	4122	4122
5°	4157	4103	4065
10°	4104	4034	3968
15°	4050	3908	3765
20°	3984	3740	3537
25°	3890	3549	3334
30°	3767	3348	3127
35°	3619	3148	2961
40°	3466	2987	2838
45°	3301	2831	2691
50°	3108	2674	2556
55°	2930	2524	2418
60°	2743	2369	2239
65°	2540	2188	2007
70°	2312	1966	1776
75°	2082	1756	1446
80°	1782	1430	1364
85°	1445	1359	1359



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	4.3
10°-20°	393.7	11.7
20°-30°	552.5	16.4
30°-40°	612.8	18.2
40°-50°	588.3	17.5
50°-60°	493.0	14.7
60°-70°	346.1	10.3
70°-80°	180.7	5.4
80°-90°	50.6	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°	1089.6	32.4
0°-40°	1702.3	50.6
0°-60°	2783.6	82.8
0°-90°	3361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1532	1532	1532	1532	1532	
5°	1539	1519	1519	1509	1505	145
15°	1454	1428	1403	1366	1352	410
25°	1310	1264	1195	1137	1123	603
35°	1102	1041	958	911	902	690
45°	867	801	744	716	707	668
55°	625	578	538	521	515	559
65°	399	372	344	322	315	396
75°	200	185	169	149	139	212
85°	47	44	44	44	44	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1531.8	1531.8	1531.8	1531.8	1531.8
2.5°	1537.5	1529.0	1531.8	1531.8	1524.7
5°	1538.9	1519.0	1519.0	1509.1	1504.8
7.5°	1517.6	1502.0	1499.2	1486.4	1482.1
10°	1502.0	1486.4	1476.4	1459.4	1452.3
12.5°	1483.5	1459.4	1441.0	1412.6	1401.2
15°	1453.7	1428.2	1402.6	1365.7	1351.5
17.5°	1426.8	1396.9	1358.6	1317.4	1301.8
20°	1391.3	1355.8	1306.1	1249.3	1235.1
22.5°	1350.1	1308.9	1250.7	1189.7	1178.3
25°	1310.3	1263.5	1195.4	1137.1	1122.9
27.5°	1269.2	1212.4	1134.3	1071.8	1057.6
30°	1212.4	1154.2	1077.5	1016.5	1006.5
32.5°	1159.9	1101.7	1017.9	968.2	956.8
35°	1101.7	1040.6	958.3	911.4	901.5
37.5°	1049.1	978.1	905.7	860.3	854.6
40°	986.7	922.8	850.4	816.3	807.8
42.5°	925.6	861.7	793.6	763.8	753.8
45°	867.4	800.7	743.9	715.5	707.0
47.5°	806.4	745.3	691.4	668.7	663.0
50°	742.5	688.5	638.8	617.6	610.5
52.5°	685.7	630.3	589.2	569.3	560.8
55°	624.6	577.8	538.0	521.0	515.3
57.5°	563.6	525.3	486.9	471.3	462.8
60°	509.7	471.3	440.1	421.6	416.0
62.5°	454.3	421.6	391.8	374.8	367.7
65°	398.9	371.9	343.6	322.3	315.2
67.5°	347.8	318.0	295.3	276.8	269.7
70°	293.9	272.6	249.9	232.8	225.7
72.5°	244.2	228.6	208.7	190.2	183.1
75°	200.2	184.6	168.9	149.1	139.1
77.5°	156.2	146.2	130.6	113.6	113.6
80°	115.0	109.3	92.3	89.4	88.0
82.5°	79.5	76.7	66.7	65.3	65.3
85°	46.8	44.0	44.0	44.0	44.0
87.5°	19.9	21.3	22.7	22.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)