

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: P295592

Luminaire Tested: **14RLN-LD5-35-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295592  
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-L82765-W2A1-U-5700K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3717.0 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

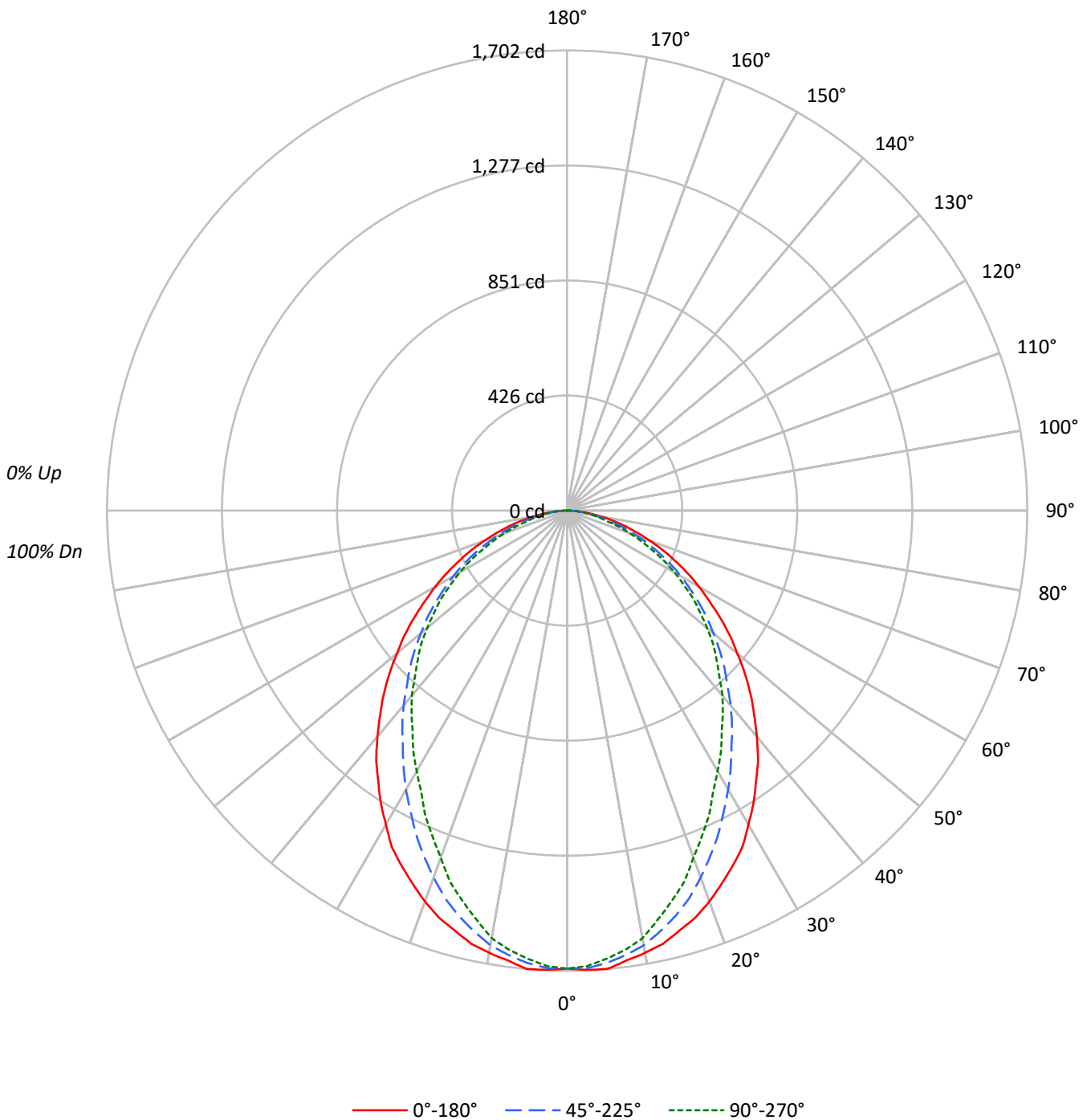
Input Watts (W): 34.503  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4559	4559	4559
5°	4597	4538	4495
10°	4539	4462	4389
15°	4479	4321	4164
20°	4406	4136	3912
25°	4303	3925	3687
30°	4166	3703	3459
35°	4002	3482	3275
40°	3833	3303	3138
45°	3651	3131	2976
50°	3437	2958	2826
55°	3241	2791	2674
60°	3033	2619	2476
65°	2809	2419	2219
70°	2557	2174	1964
75°	2302	1942	1600
80°	1971	1582	1508
85°	1599	1504	1504



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	4.3
10°-20°	435.3	11.7
20°-30°	611.0	16.4
30°-40°	677.7	18.2
40°-50°	650.6	17.5
50°-60°	545.2	14.7
60°-70°	382.7	10.3
70°-80°	199.9	5.4
80°-90°	55.9	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°	1205.0	32.4
0°-40°	1882.7	50.6
0°-60°	3078.5	82.8
0°-90°	3717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3717.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1702	1680	1680	1669	1664	161
15°	1608	1579	1551	1510	1495	454
25°	1449	1397	1322	1258	1242	667
35°	1218	1151	1060	1008	997	763
45°	959	886	823	791	782	739
55°	691	639	595	576	570	618
65°	441	411	380	356	348	438
75°	221	204	187	165	154	235
85°	52	49	49	49	49	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1694.1	1694.1	1694.1	1694.1	1694.1
2.5°	1700.3	1690.9	1694.1	1694.1	1686.2
5°	1701.9	1679.9	1679.9	1668.9	1664.2
7.5°	1678.4	1661.1	1657.9	1643.8	1639.1
10°	1661.1	1643.8	1632.8	1614.0	1606.1
12.5°	1640.7	1614.0	1593.6	1562.2	1549.6
15°	1607.7	1579.4	1551.2	1510.4	1494.7
17.5°	1577.9	1544.9	1502.5	1457.0	1439.7
20°	1538.6	1499.4	1444.4	1381.6	1365.9
22.5°	1493.1	1447.6	1383.2	1315.7	1303.1
25°	1449.1	1397.3	1322.0	1257.6	1241.9
27.5°	1403.6	1340.8	1254.5	1185.4	1169.7
30°	1340.8	1276.4	1191.7	1124.1	1113.1
32.5°	1282.7	1218.3	1125.7	1070.8	1058.2
35°	1218.3	1150.8	1059.8	1008.0	997.0
37.5°	1160.3	1081.7	1001.7	951.4	945.2
40°	1091.2	1020.5	940.4	902.8	893.3
42.5°	1023.7	953.0	877.6	844.7	833.7
45°	959.3	885.5	822.7	791.3	781.9
47.5°	891.8	824.3	764.6	739.5	733.2
50°	821.1	761.5	706.5	683.0	675.1
52.5°	758.3	697.1	651.6	629.6	620.2
55°	690.8	639.0	595.0	576.2	569.9
57.5°	623.3	580.9	538.5	521.2	511.8
60°	563.6	521.2	486.7	466.3	460.0
62.5°	502.4	466.3	433.3	414.5	406.6
65°	441.2	411.3	379.9	356.4	348.5
67.5°	384.7	351.7	326.6	306.2	298.3
70°	325.0	301.4	276.3	257.5	249.6
72.5°	270.0	252.8	230.8	210.4	202.5
75°	221.4	204.1	186.8	164.9	153.9
77.5°	172.7	161.7	144.4	125.6	125.6
80°	127.2	120.9	102.1	98.9	97.3
82.5°	87.9	84.8	73.8	72.2	72.2
85°	51.8	48.7	48.7	48.7	48.7
87.5°	22.0	23.6	25.1	25.1	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)