

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: P295602

Luminaire Tested: **14RLN-LD5-40-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295602  
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-LD5-40-UNV-L82765-W2A1-U-6500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4241.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

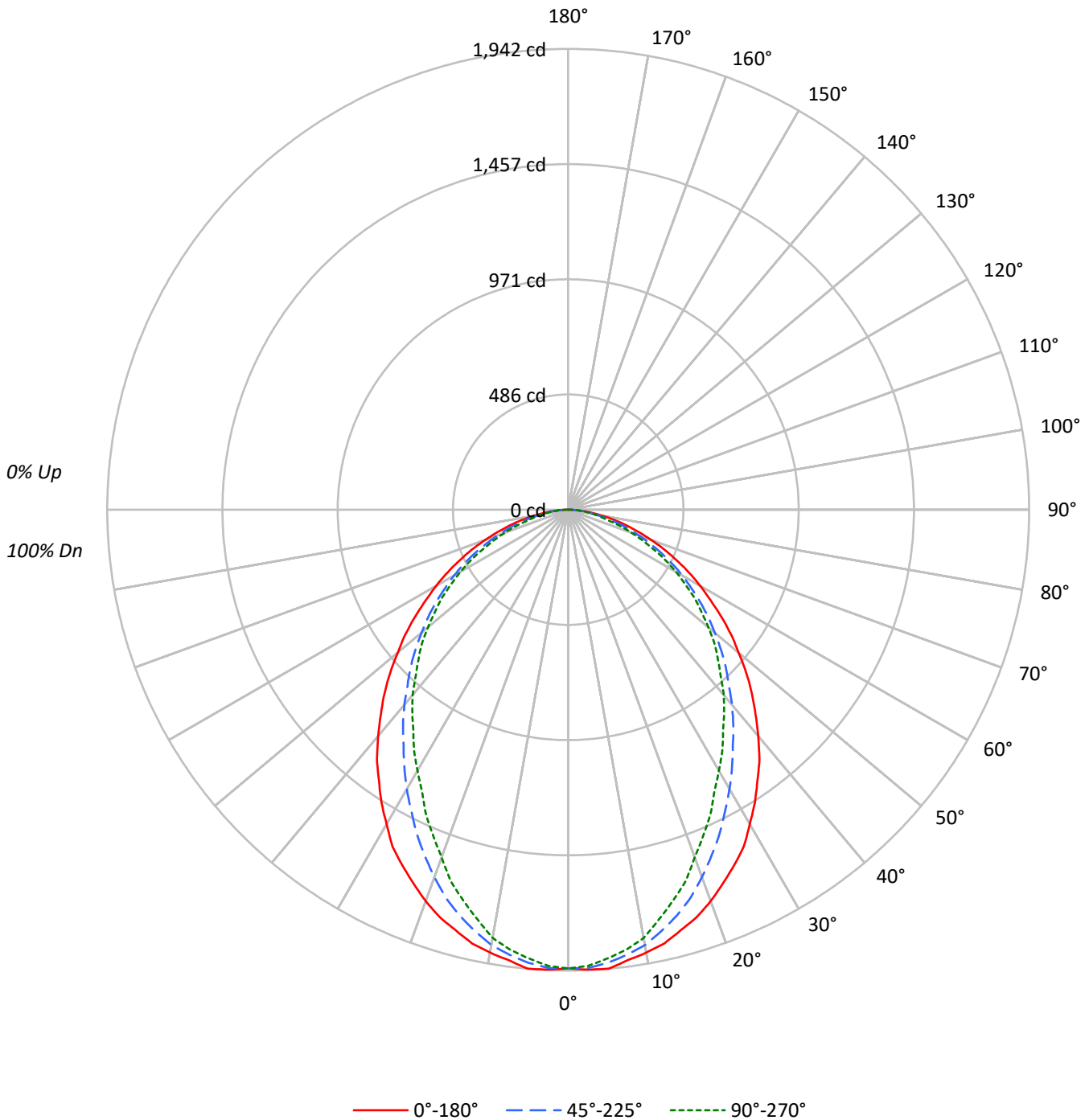
Input Watts (W): 41.199  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	5201	5201	5201
5°	5245	5178	5129
10°	5179	5091	5008
15°	5110	4931	4751
20°	5027	4720	4463
25°	4909	4478	4207
30°	4754	4225	3947
35°	4567	3972	3737
40°	4373	3769	3581
45°	4165	3572	3395
50°	3922	3375	3225
55°	3698	3185	3051
60°	3461	2989	2825
65°	3205	2760	2532
70°	2917	2481	2241
75°	2626	2217	1826
80°	2249	1804	1722
85°	1825	1714	1714



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.0	4.3
10°-20°	496.7	11.7
20°-30°	697.1	16.4
30°-40°	773.2	18.2
40°-50°	742.3	17.5
50°-60°	622.1	14.7
60°-70°	436.7	10.3
70°-80°	228.0	5.4
80°-90°	63.8	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°	1374.8	32.4
0°-40°	2148.1	50.7
0°-60°	3512.5	82.8
0°-90°	4241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1933	1933	1933	1933	1933	
5°	1942	1917	1917	1904	1899	183
15°	1834	1802	1770	1723	1705	518
25°	1653	1594	1508	1435	1417	761
35°	1390	1313	1209	1150	1138	870
45°	1094	1010	939	903	892	843
55°	788	729	679	657	650	705
65°	503	469	434	407	398	500
75°	253	233	213	188	176	268
85°	59	56	56	56	56	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1932.9	1932.9	1932.9	1932.9	1932.9
2.5°	1940.0	1929.3	1932.9	1932.9	1923.9
5°	1941.8	1916.8	1916.8	1904.2	1898.8
7.5°	1915.0	1895.3	1891.7	1875.6	1870.2
10°	1895.3	1875.6	1863.0	1841.5	1832.6
12.5°	1872.0	1841.5	1818.2	1782.4	1768.1
15°	1834.4	1802.1	1769.9	1723.3	1705.4
17.5°	1800.3	1762.7	1714.3	1662.4	1642.7
20°	1755.5	1710.7	1648.1	1576.4	1558.5
22.5°	1703.6	1651.6	1578.2	1501.2	1486.8
25°	1653.4	1594.3	1508.3	1434.9	1417.0
27.5°	1601.5	1529.8	1431.3	1352.5	1334.6
30°	1529.8	1456.4	1359.6	1282.6	1270.1
32.5°	1463.5	1390.1	1284.4	1221.7	1207.4
35°	1390.1	1313.1	1209.2	1150.1	1137.5
37.5°	1323.8	1234.2	1142.9	1085.6	1078.4
40°	1245.0	1164.4	1073.0	1030.0	1019.3
42.5°	1168.0	1087.4	1001.4	963.8	951.2
45°	1094.5	1010.3	938.7	902.8	892.1
47.5°	1017.5	940.5	872.4	843.7	836.6
50°	936.9	868.8	806.1	779.2	770.3
52.5°	865.2	795.4	743.4	718.3	707.6
55°	788.2	729.1	678.9	657.4	650.3
57.5°	711.2	662.8	614.4	594.7	584.0
60°	643.1	594.7	555.3	532.0	524.9
62.5°	573.2	532.0	494.4	472.9	464.0
65°	503.4	469.3	433.5	406.6	397.7
67.5°	438.9	401.3	372.6	349.3	340.4
70°	370.8	343.9	315.3	293.8	284.8
72.5°	308.1	288.4	263.3	240.0	231.1
75°	252.6	232.9	213.2	188.1	175.6
77.5°	197.0	184.5	164.8	143.3	143.3
80°	145.1	137.9	116.4	112.9	111.1
82.5°	100.3	96.7	84.2	82.4	82.4
85°	59.1	55.5	55.5	55.5	55.5
87.5°	25.1	26.9	28.7	28.7	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)