

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: P295611

Luminaire Tested: **14RLN-LD5-26-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295611  
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-LD5-26-UNV-L93050-W2A1-U-4500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH STANDARD LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2496.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 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

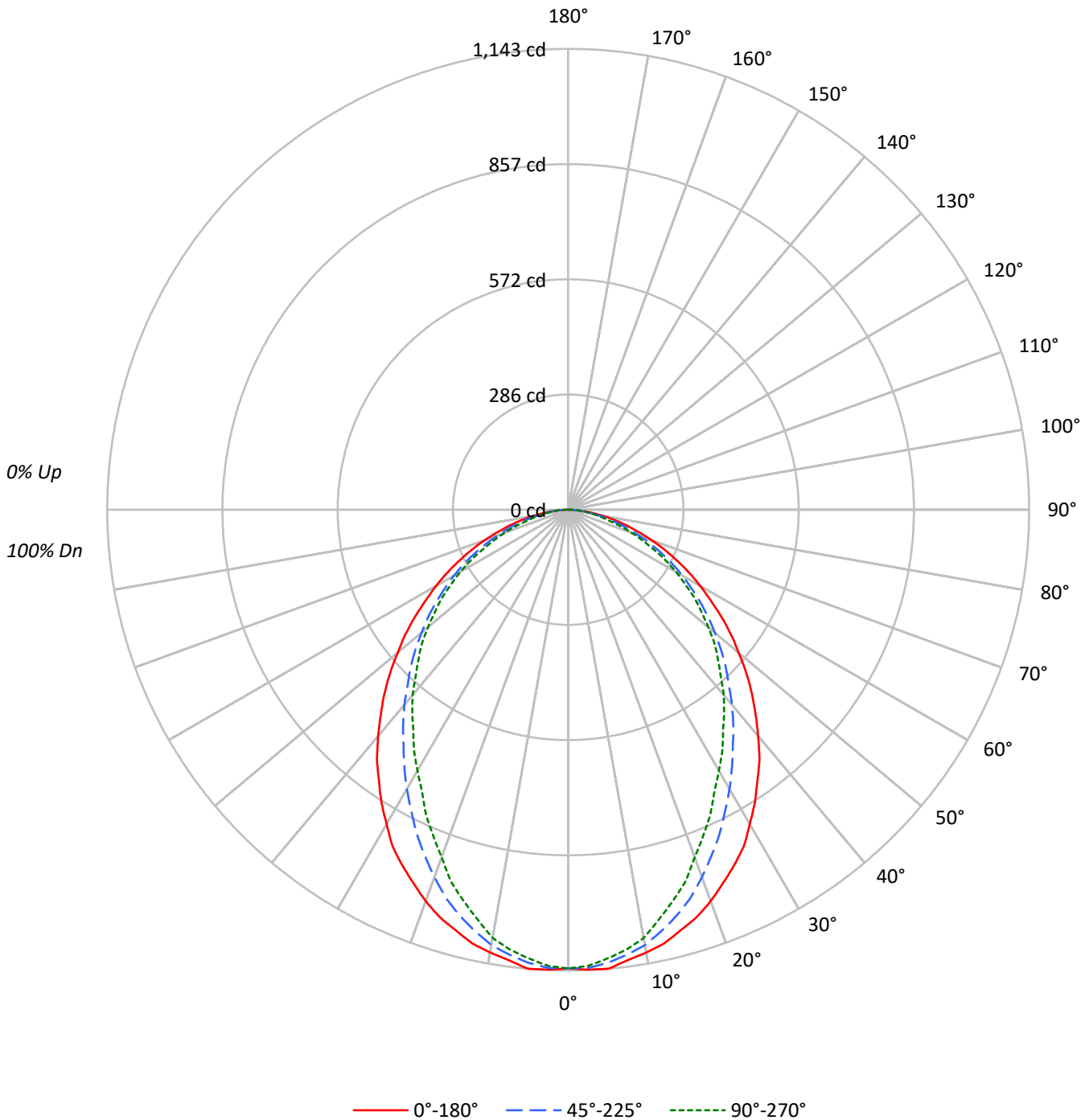
Input Watts (W): 24.831  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3061	3061	3061
5°	3087	3047	3019
10°	3048	2996	2947
15°	3008	2902	2796
20°	2959	2777	2627
25°	2889	2636	2476
30°	2798	2486	2323
35°	2688	2338	2199
40°	2574	2218	2107
45°	2452	2102	1998
50°	2308	1986	1898
55°	2176	1875	1795
60°	2037	1759	1662
65°	1887	1624	1491
70°	1717	1460	1319
75°	1546	1305	1074
80°	1323	1062	1013
85°	1074	1010	1010



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.5	4.3
10°-20°	292.3	11.7
20°-30°	410.3	16.4
30°-40°	455.1	18.2
40°-50°	436.9	17.5
50°-60°	366.1	14.7
60°-70°	257.0	10.3
70°-80°	134.2	5.4
80°-90°	37.6	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°	809.1	32.4
0°-40°	1264.2	50.6
0°-60°	2067.2	82.8
0°-90°	2496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1143	1128	1128	1121	1118	108
15°	1080	1061	1042	1014	1004	305
25°	973	938	888	844	834	448
35°	818	773	712	677	670	512
45°	644	595	552	531	525	496
55°	464	429	400	387	383	415
65°	296	276	255	239	234	294
75°	149	137	126	111	103	158
85°	35	33	33	33	33	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1137.6	1137.6	1137.6	1137.6	1137.6
2.5°	1141.8	1135.5	1137.6	1137.6	1132.3
5°	1142.8	1128.1	1128.1	1120.7	1117.5
7.5°	1127.0	1115.4	1113.3	1103.8	1100.7
10°	1115.4	1103.8	1096.5	1083.8	1078.5
12.5°	1101.7	1083.8	1070.1	1049.0	1040.6
15°	1079.6	1060.6	1041.6	1014.2	1003.7
17.5°	1059.6	1037.4	1009.0	978.4	966.8
20°	1033.2	1006.8	969.9	927.8	917.2
22.5°	1002.6	972.1	928.8	883.5	875.1
25°	973.1	938.3	887.7	844.5	833.9
27.5°	942.5	900.4	842.4	796.0	785.4
30°	900.4	857.1	800.2	754.9	747.5
32.5°	861.4	818.1	755.9	719.0	710.6
35°	818.1	772.8	711.6	676.9	669.5
37.5°	779.1	726.4	672.6	638.9	634.7
40°	732.7	685.3	631.5	606.2	599.9
42.5°	687.4	640.0	589.3	567.2	559.8
45°	644.2	594.6	552.4	531.4	525.0
47.5°	598.8	553.5	513.4	496.6	492.4
50°	551.4	511.3	474.4	458.6	453.3
52.5°	509.2	468.1	437.5	422.8	416.4
55°	463.9	429.1	399.6	386.9	382.7
57.5°	418.6	390.1	361.6	350.0	343.7
60°	378.5	350.0	326.8	313.1	308.9
62.5°	337.4	313.1	291.0	278.3	273.1
65°	296.3	276.2	255.1	239.3	234.1
67.5°	258.3	236.2	219.3	205.6	200.3
70°	218.2	202.4	185.6	172.9	167.6
72.5°	181.3	169.7	155.0	141.3	136.0
75°	148.7	137.1	125.5	110.7	103.3
77.5°	116.0	108.6	97.0	84.3	84.3
80°	85.4	81.2	68.5	66.4	65.4
82.5°	59.0	56.9	49.6	48.5	48.5
85°	34.8	32.7	32.7	32.7	32.7
87.5°	14.8	15.8	16.9	16.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)