

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: P295694

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14RLN-LD5-40-RDP-UNV-L83050-W2A1-U-3500K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3442.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

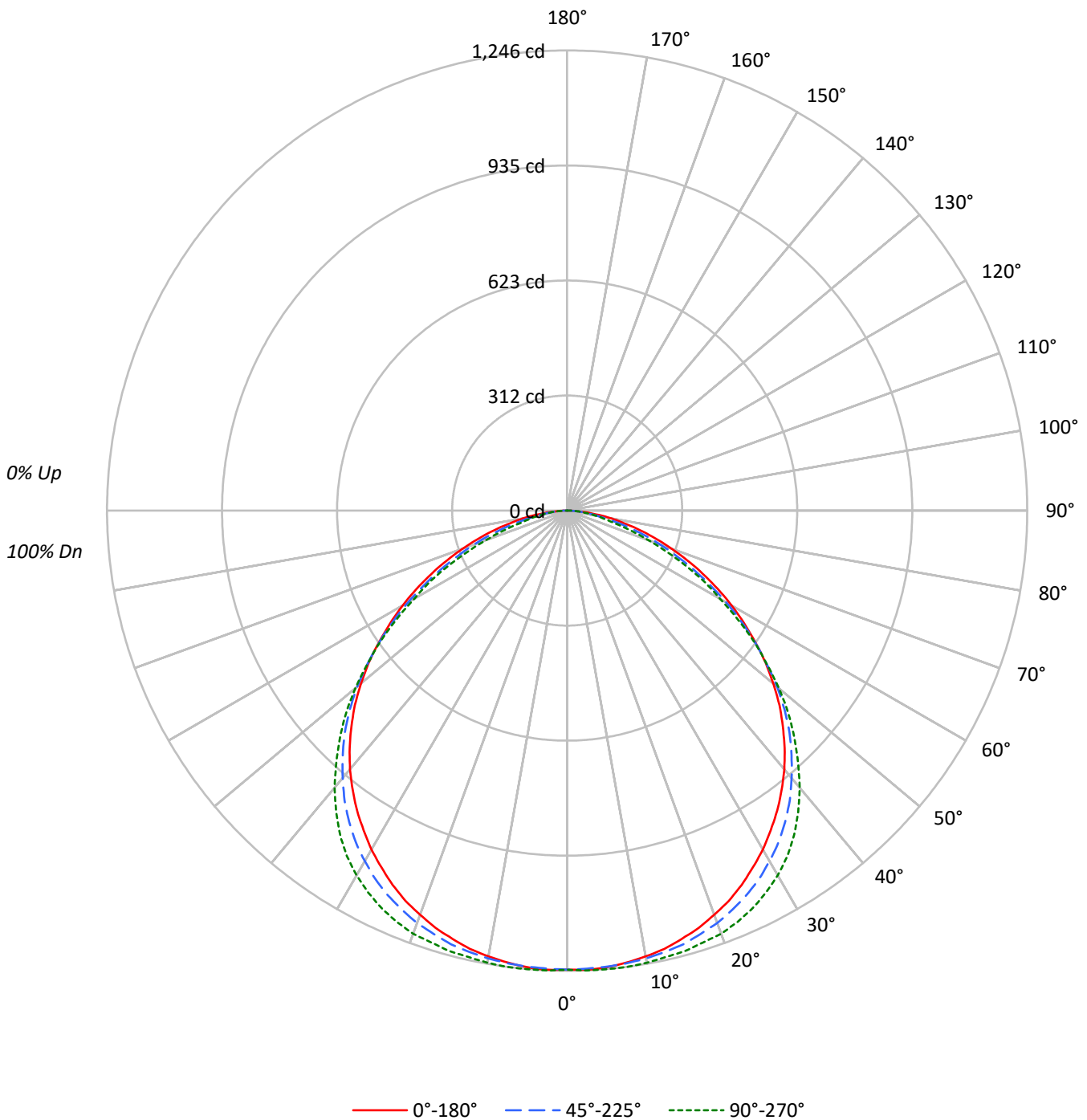
Input Watts (W): 39.432  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3345	3345	3345
5°	3353	3348	3367
10°	3350	3364	3396
15°	3344	3387	3439
20°	3334	3403	3491
25°	3320	3412	3528
30°	3294	3406	3544
35°	3258	3381	3522
40°	3213	3321	3442
45°	3143	3240	3312
50°	3049	3107	3135
55°	2920	2912	2896
60°	2770	2678	2576
65°	2580	2395	2264
70°	2354	2098	1829
75°	2116	1743	1369
80°	1881	1272	1192
85°	1479	1056	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.3	3.4
10°-20°	343.9	10.0
20°-30°	530.7	15.4
30°-40°	643.7	18.7
40°-50°	653.5	19.0
50°-60°	552.9	16.1
60°-70°	374.0	10.9
70°-80°	180.8	5.3
80°-90°	44.1	1.3
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°	992.9	28.8
0°-40°	1636.6	47.5
0°-60°	2843.0	82.6
0°-90°	3442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3442.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1243	1243	1243	1243	1243	
5°	1241	1241	1240	1245	1246	118
15°	1200	1207	1216	1229	1234	339
25°	1118	1127	1149	1178	1188	515
35°	992	1002	1029	1062	1072	620
45°	826	828	852	869	870	637
55°	622	617	621	621	617	556
65°	405	388	376	361	356	402
75°	204	188	168	145	132	217
85°	48	38	34	34	34	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1243.0	1243.0	1243.0	1243.0	1243.0
2.5°	1244.7	1244.7	1241.3	1244.7	1246.5
5°	1241.3	1241.3	1239.6	1244.7	1246.5
7.5°	1234.5	1236.2	1236.2	1243.0	1246.5
10°	1225.9	1229.4	1231.1	1241.3	1243.0
12.5°	1215.7	1219.1	1224.2	1236.2	1237.9
15°	1200.3	1207.1	1215.7	1229.4	1234.5
17.5°	1184.9	1191.7	1202.0	1220.8	1225.9
20°	1164.4	1172.9	1188.3	1210.5	1219.1
22.5°	1143.9	1150.7	1169.5	1196.9	1205.4
25°	1118.2	1126.8	1149.0	1178.1	1188.3
27.5°	1089.1	1101.1	1125.1	1155.8	1166.1
30°	1060.1	1070.3	1096.0	1130.2	1140.4
32.5°	1025.9	1036.1	1065.2	1097.7	1109.7
35°	991.7	1001.9	1029.3	1061.8	1072.1
37.5°	954.1	960.9	990.0	1017.3	1027.6
40°	914.7	919.9	945.5	972.9	979.7
42.5°	872.0	875.4	899.4	923.3	925.0
45°	825.8	827.5	851.5	868.6	870.3
47.5°	779.7	778.0	798.5	810.5	812.2
50°	728.4	728.4	742.1	748.9	748.9
52.5°	677.1	673.7	680.5	685.6	680.5
55°	622.4	617.2	620.7	620.7	617.2
57.5°	567.7	557.4	559.1	555.7	547.1
60°	514.7	502.7	497.6	485.6	478.7
62.5°	459.9	446.3	436.0	422.3	420.6
65°	405.2	388.1	376.2	360.8	355.6
67.5°	352.2	336.8	319.7	302.6	292.4
70°	299.2	282.1	266.7	244.5	232.5
72.5°	251.3	236.0	217.1	191.5	182.9
75°	203.5	188.1	167.6	145.3	131.7
77.5°	157.3	145.3	123.1	104.3	102.6
80°	121.4	107.7	82.1	76.9	76.9
82.5°	78.7	70.1	58.1	54.7	54.7
85°	47.9	37.6	34.2	34.2	34.2
87.5°	18.8	17.1	17.1	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)