

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: P295730

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295730  
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-LD5-35-RDP-UNV-L82765-W2A1-U-5000K  
Description: RLN LED 1x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3114.0 lumens  
Efficiency: N/A  
Efficacy: 90.7 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

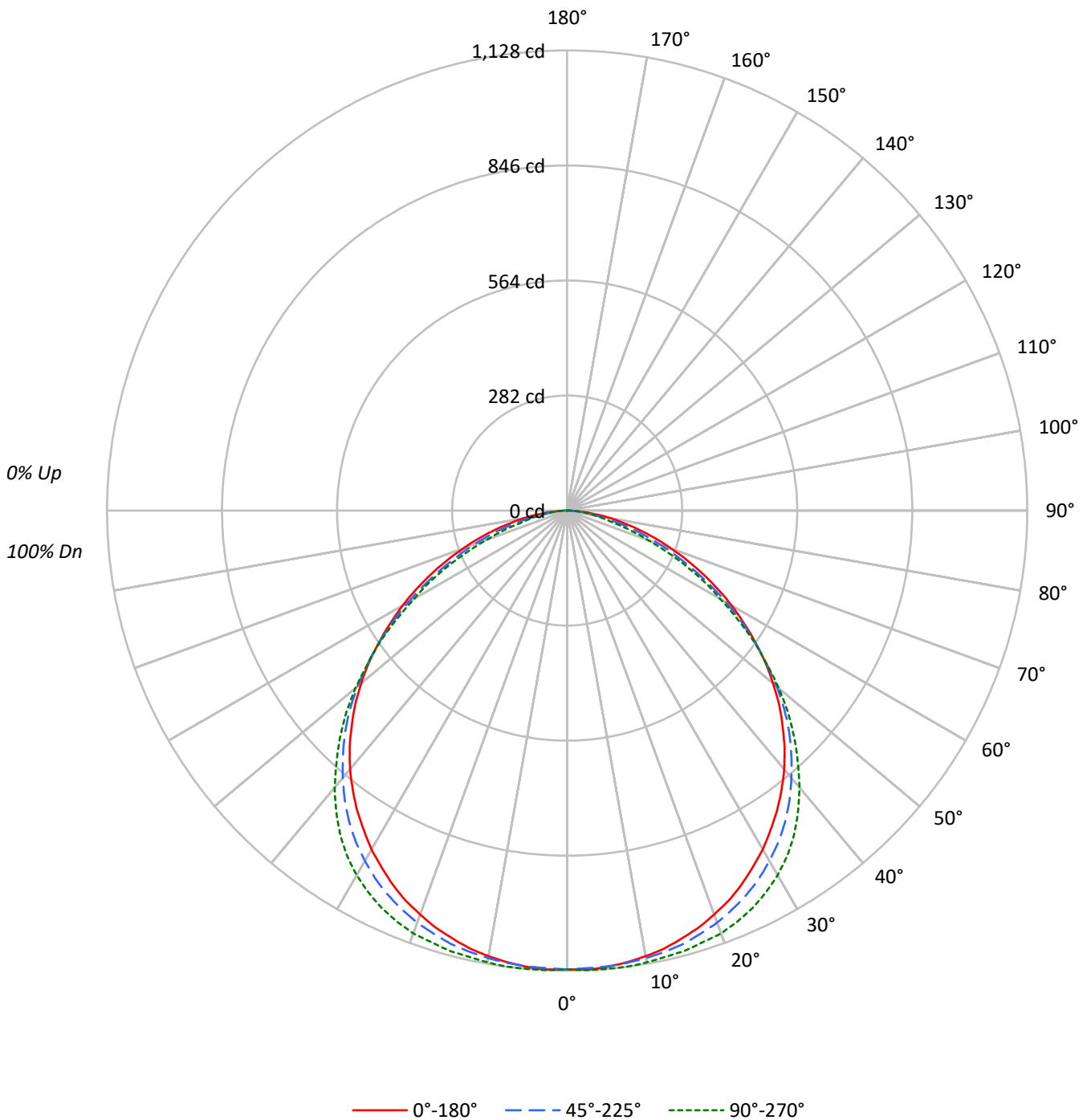
Input Watts (W): 34.317  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3026	3026	3026
5°	3034	3029	3046
10°	3031	3043	3073
15°	3025	3064	3111
20°	3017	3079	3158
25°	3004	3086	3192
30°	2980	3081	3206
35°	2947	3059	3186
40°	2907	3005	3114
45°	2843	2931	2997
50°	2759	2810	2836
55°	2642	2634	2620
60°	2506	2422	2331
65°	2334	2167	2049
70°	2130	1899	1655
75°	1914	1576	1238
80°	1702	1151	1079
85°	1337	954	954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	3.4
10°-20°	311.1	10.0
20°-30°	480.2	15.4
30°-40°	582.3	18.7
40°-50°	591.2	19.0
50°-60°	500.2	16.1
60°-70°	338.4	10.9
70°-80°	163.6	5.3
80°-90°	39.9	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°	898.3	28.8
0°-40°	1480.7	47.5
0°-60°	2572.1	82.6
0°-90°	3114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1123	1123	1122	1126	1128	107
15°	1086	1092	1100	1112	1117	307
25°	1012	1019	1040	1066	1075	466
35°	897	906	931	961	970	561
45°	747	749	770	786	787	576
55°	563	558	562	562	558	503
65°	367	351	340	326	322	363
75°	184	170	152	132	119	196
85°	43	34	31	31	31	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1124.6	1124.6	1124.6	1124.6	1124.6
2.5°	1126.1	1126.1	1123.0	1126.1	1127.7
5°	1123.0	1123.0	1121.5	1126.1	1127.7
7.5°	1116.8	1118.4	1118.4	1124.6	1127.7
10°	1109.1	1112.2	1113.8	1123.0	1124.6
12.5°	1099.8	1102.9	1107.6	1118.4	1119.9
15°	1085.9	1092.1	1099.8	1112.2	1116.8
17.5°	1072.0	1078.2	1087.5	1104.5	1109.1
20°	1053.4	1061.2	1075.1	1095.2	1102.9
22.5°	1034.9	1041.0	1058.1	1082.8	1090.5
25°	1011.7	1019.4	1039.5	1065.8	1075.1
27.5°	985.4	996.2	1017.8	1045.7	1055.0
30°	959.1	968.3	991.5	1022.5	1031.8
32.5°	928.1	937.4	963.7	993.1	1003.9
35°	897.2	906.5	931.2	960.6	969.9
37.5°	863.2	869.3	895.6	920.4	929.7
40°	827.6	832.2	855.4	880.2	886.4
42.5°	788.9	792.0	813.7	835.3	836.9
45°	747.1	748.7	770.3	785.8	787.4
47.5°	705.4	703.8	722.4	733.2	734.8
50°	659.0	659.0	671.3	677.5	677.5
52.5°	612.6	609.5	615.7	620.3	615.7
55°	563.1	558.4	561.5	561.5	558.4
57.5°	513.6	504.3	505.8	502.7	495.0
60°	465.6	454.8	450.1	439.3	433.1
62.5°	416.1	403.7	394.5	382.1	380.5
65°	366.6	351.1	340.3	326.4	321.8
67.5°	318.7	304.7	289.3	273.8	264.5
70°	270.7	255.2	241.3	221.2	210.4
72.5°	227.4	213.5	196.5	173.3	165.5
75°	184.1	170.2	151.6	131.5	119.1
77.5°	142.3	131.5	111.4	94.4	92.8
80°	109.8	97.5	74.3	69.6	69.6
82.5°	71.2	63.4	52.6	49.5	49.5
85°	43.3	34.0	30.9	30.9	30.9
87.5°	17.0	15.5	15.5	15.5	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)