

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: P295736

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P295736  
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-L82765-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: 3361.0 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

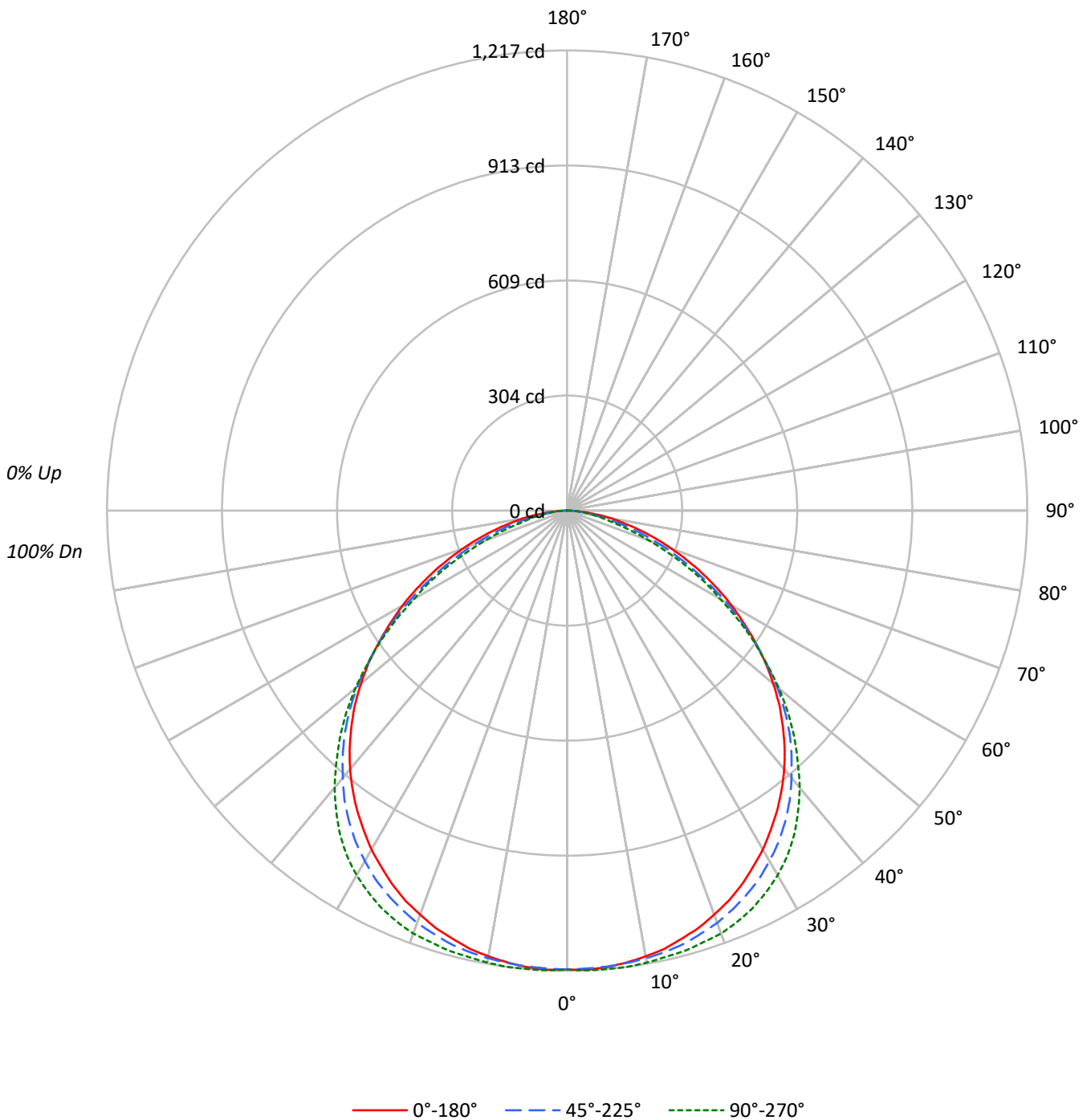
Input Watts (W): 39.618  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3266	3266	3266
5°	3274	3270	3288
10°	3271	3285	3317
15°	3265	3307	3358
20°	3256	3323	3409
25°	3242	3331	3445
30°	3216	3325	3460
35°	3181	3302	3439
40°	3138	3243	3361
45°	3069	3164	3234
50°	2977	3033	3062
55°	2851	2844	2828
60°	2704	2615	2516
65°	2520	2339	2211
70°	2299	2050	1787
75°	2066	1701	1337
80°	1836	1241	1164
85°	1442	1031	1031



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.5	3.4
10°-20°	335.8	10.0
20°-30°	518.2	15.4
30°-40°	628.5	18.7
40°-50°	638.1	19.0
50°-60°	539.8	16.1
60°-70°	365.2	10.9
70°-80°	176.6	5.3
80°-90°	43.1	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°	969.6	28.8
0°-40°	1598.1	47.5
0°-60°	2776.1	82.6
0°-90°	3361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1212	1212	1210	1215	1217	115
15°	1172	1179	1187	1200	1205	331
25°	1092	1100	1122	1150	1160	503
35°	968	978	1005	1037	1047	605
45°	806	808	831	848	850	622
55°	608	603	606	606	603	543
65°	396	379	367	352	347	392
75°	199	184	164	142	129	212
85°	47	37	33	33	33	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1213.8	1213.8	1213.8	1213.8	1213.8
2.5°	1215.4	1215.4	1212.1	1215.4	1217.1
5°	1212.1	1212.1	1210.4	1215.4	1217.1
7.5°	1205.4	1207.1	1207.1	1213.8	1217.1
10°	1197.1	1200.4	1202.1	1212.1	1213.8
12.5°	1187.1	1190.4	1195.4	1207.1	1208.8
15°	1172.0	1178.7	1187.1	1200.4	1205.4
17.5°	1157.0	1163.7	1173.7	1192.1	1197.1
20°	1137.0	1145.3	1160.4	1182.1	1190.4
22.5°	1116.9	1123.6	1142.0	1168.7	1177.0
25°	1091.9	1100.2	1122.0	1150.3	1160.4
27.5°	1063.5	1075.2	1098.6	1128.6	1138.6
30°	1035.1	1045.2	1070.2	1103.6	1113.6
32.5°	1001.7	1011.8	1040.1	1071.9	1083.6
35°	968.4	978.4	1005.1	1036.8	1046.8
37.5°	931.6	938.3	966.7	993.4	1003.4
40°	893.2	898.2	923.3	950.0	956.7
42.5°	851.5	854.8	878.2	901.6	903.2
45°	806.4	808.1	831.4	848.1	849.8
47.5°	761.3	759.7	779.7	791.4	793.0
50°	711.2	711.2	724.6	731.3	731.3
52.5°	661.2	657.8	664.5	669.5	664.5
55°	607.7	602.7	606.1	606.1	602.7
57.5°	554.3	544.3	546.0	542.6	534.3
60°	502.5	490.9	485.8	474.2	467.5
62.5°	449.1	435.8	425.7	412.4	410.7
65°	395.7	379.0	367.3	352.3	347.3
67.5°	343.9	328.9	312.2	295.5	285.5
70°	292.2	275.5	260.5	238.7	227.1
72.5°	245.4	230.4	212.0	187.0	178.6
75°	198.7	183.7	163.6	141.9	128.6
77.5°	153.6	141.9	120.2	101.8	100.2
80°	118.5	105.2	80.1	75.1	75.1
82.5°	76.8	68.5	56.8	53.4	53.4
85°	46.7	36.7	33.4	33.4	33.4
87.5°	18.4	16.7	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)