

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: P295740

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295740
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-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3579.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

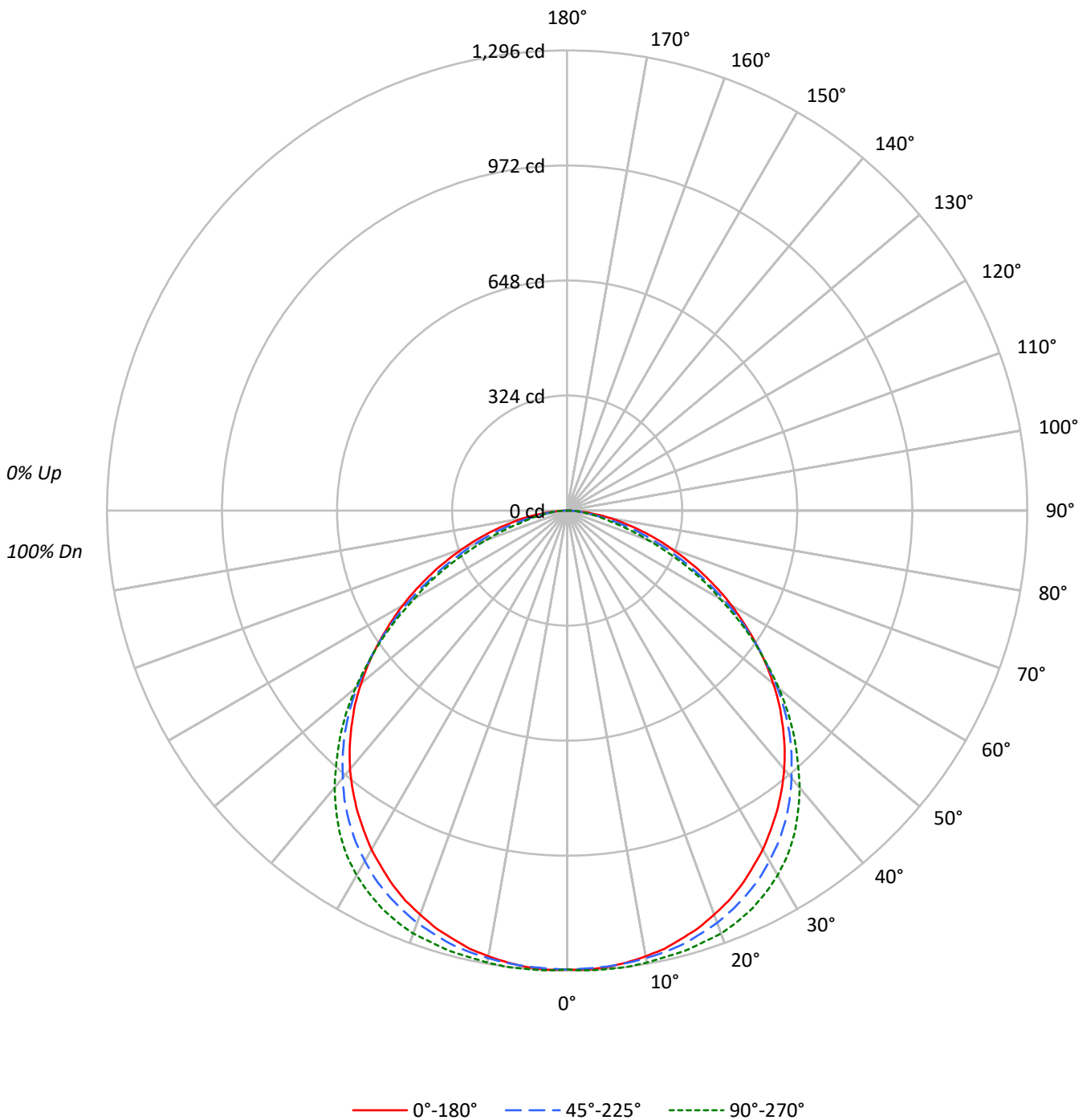
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3478	3478	3478
5°	3487	3482	3501
10°	3483	3498	3532
15°	3477	3522	3576
20°	3467	3538	3630
25°	3452	3547	3669
30°	3425	3541	3685
35°	3388	3516	3662
40°	3341	3454	3579
45°	3268	3369	3444
50°	3171	3230	3260
55°	3036	3028	3011
60°	2880	2785	2679
65°	2683	2490	2355
70°	2448	2182	1902
75°	2200	1811	1423
80°	1956	1322	1240
85°	1538	1099	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.0	3.4
10°-20°	357.6	10.0
20°-30°	551.8	15.4
30°-40°	669.3	18.7
40°-50°	679.5	19.0
50°-60°	574.9	16.1
60°-70°	388.9	10.9
70°-80°	188.0	5.3
80°-90°	45.9	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°	1032.5	28.8
0°-40°	1701.8	47.5
0°-60°	2956.1	82.6
0°-90°	3579.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3579.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1291	1291	1289	1294	1296	123
15°	1248	1255	1264	1278	1284	352
25°	1163	1172	1195	1225	1236	536
35°	1031	1042	1070	1104	1115	645
45°	859	860	885	903	905	662
55°	647	642	645	645	642	578
65°	421	404	391	375	370	418
75°	212	196	174	151	137	225
85°	50	39	36	36	36	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1292.5	1292.5	1292.5	1292.5	1292.5
2.5°	1294.3	1294.3	1290.7	1294.3	1296.1
5°	1290.7	1290.7	1289.0	1294.3	1296.1
7.5°	1283.6	1285.4	1285.4	1292.5	1296.1
10°	1274.7	1278.3	1280.1	1290.7	1292.5
12.5°	1264.1	1267.6	1273.0	1285.4	1287.2
15°	1248.1	1255.2	1264.1	1278.3	1283.6
17.5°	1232.1	1239.2	1249.8	1269.4	1274.7
20°	1210.7	1219.6	1235.6	1258.7	1267.6
22.5°	1189.4	1196.5	1216.1	1244.5	1253.4
25°	1162.7	1171.6	1194.7	1224.9	1235.6
27.5°	1132.5	1144.9	1169.8	1201.8	1212.5
30°	1102.3	1112.9	1139.6	1175.2	1185.8
32.5°	1066.7	1077.4	1107.6	1141.4	1153.8
35°	1031.2	1041.8	1070.3	1104.1	1114.7
37.5°	992.0	999.2	1029.4	1057.8	1068.5
40°	951.2	956.5	983.2	1011.6	1018.7
42.5°	906.7	910.3	935.2	960.0	961.8
45°	858.7	860.5	885.4	903.2	904.9
47.5°	810.7	808.9	830.3	842.7	844.5
50°	757.4	757.4	771.6	778.7	778.7
52.5°	704.0	700.5	707.6	712.9	707.6
55°	647.1	641.8	645.4	645.4	641.8
57.5°	590.3	579.6	581.4	577.8	568.9
60°	535.1	522.7	517.4	504.9	497.8
62.5°	478.2	464.0	453.4	439.1	437.4
65°	421.4	403.6	391.1	375.1	369.8
67.5°	366.2	350.2	332.5	314.7	304.0
70°	311.1	293.3	277.3	254.2	241.8
72.5°	261.3	245.3	225.8	199.1	190.2
75°	211.6	195.6	174.2	151.1	136.9
77.5°	163.6	151.1	128.0	108.4	106.7
80°	126.2	112.0	85.3	80.0	80.0
82.5°	81.8	72.9	60.4	56.9	56.9
85°	49.8	39.1	35.6	35.6	35.6
87.5°	19.6	17.8	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)