

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: P295811

Luminaire Tested: **14RLN-LD5-40-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295811
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-L92765-W2A1-U-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3244.0 lumens
Efficiency: N/A
Efficacy: 79.8 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

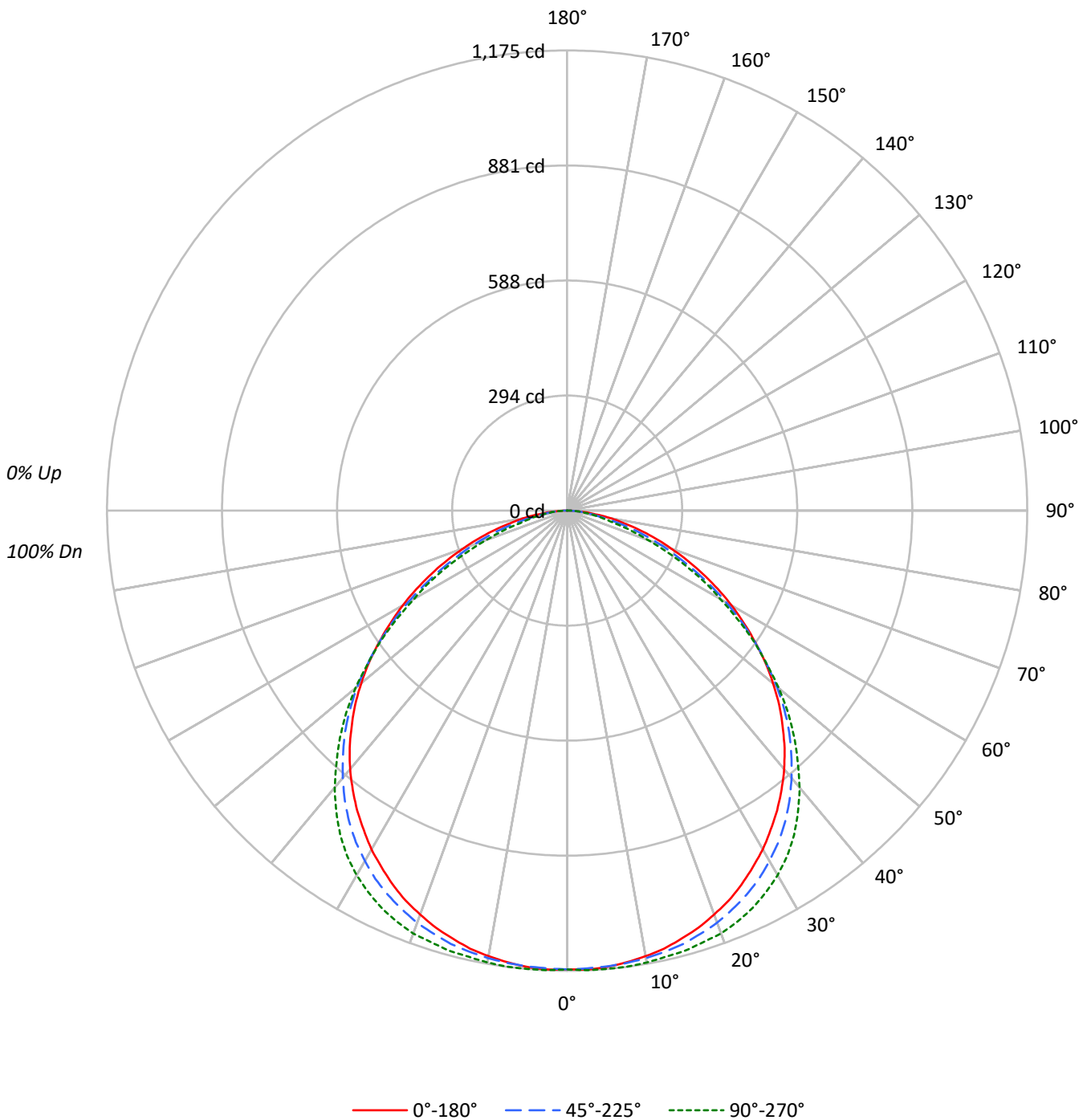
Input Watts (W): 40.641
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3152	3152	3152
5°	3160	3156	3173
10°	3157	3170	3201
15°	3151	3192	3241
20°	3143	3207	3290
25°	3129	3215	3325
30°	3104	3210	3340
35°	3070	3187	3319
40°	3028	3130	3244
45°	2962	3054	3121
50°	2874	2928	2955
55°	2752	2745	2729
60°	2610	2524	2428
65°	2432	2257	2134
70°	2219	1978	1725
75°	1994	1642	1290
80°	1773	1198	1124
85°	1392	994	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	3.4
10°-20°	324.1	10.0
20°-30°	500.2	15.4
30°-40°	606.6	18.7
40°-50°	615.9	19.0
50°-60°	521.0	16.1
60°-70°	352.5	10.9
70°-80°	170.5	5.3
80°-90°	41.6	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°	935.8	28.8
0°-40°	1542.5	47.5
0°-60°	2679.4	82.6
0°-90°	3244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1170	1170	1168	1173	1175	111
15°	1131	1138	1146	1159	1164	319
25°	1054	1062	1083	1110	1120	485
35°	935	944	970	1001	1010	584
45°	778	780	802	819	820	600
55°	587	582	585	585	582	524
65°	382	366	354	340	335	379
75°	192	177	158	137	124	204
85°	45	36	32	32	32	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.5	1171.5	1171.5	1171.5	1171.5
2.5°	1173.1	1173.1	1169.9	1173.1	1174.7
5°	1169.9	1169.9	1168.3	1173.1	1174.7
7.5°	1163.5	1165.1	1165.1	1171.5	1174.7
10°	1155.4	1158.6	1160.2	1169.9	1171.5
12.5°	1145.7	1149.0	1153.8	1165.1	1166.7
15°	1131.2	1137.7	1145.7	1158.6	1163.5
17.5°	1116.7	1123.2	1132.9	1150.6	1155.4
20°	1097.4	1105.5	1120.0	1140.9	1149.0
22.5°	1078.1	1084.5	1102.2	1128.0	1136.1
25°	1053.9	1061.9	1082.9	1110.3	1120.0
27.5°	1026.5	1037.8	1060.3	1089.3	1099.0
30°	999.1	1008.8	1032.9	1065.2	1074.8
32.5°	966.9	976.5	1003.9	1034.6	1045.8
35°	934.6	944.3	970.1	1000.7	1010.4
37.5°	899.2	905.6	933.0	958.8	968.5
40°	862.1	867.0	891.1	916.9	923.4
42.5°	821.8	825.1	847.6	870.2	871.8
45°	778.3	779.9	802.5	818.6	820.2
47.5°	734.8	733.2	752.5	763.8	765.4
50°	686.5	686.5	699.4	705.8	705.8
52.5°	638.1	634.9	641.4	646.2	641.4
55°	586.6	581.7	585.0	585.0	581.7
57.5°	535.0	525.3	526.9	523.7	515.7
60°	485.0	473.8	468.9	457.7	451.2
62.5°	433.5	420.6	410.9	398.0	396.4
65°	381.9	365.8	354.5	340.0	335.2
67.5°	332.0	317.5	301.3	285.2	275.6
70°	282.0	265.9	251.4	230.4	219.2
72.5°	236.9	222.4	204.7	180.5	172.4
75°	191.8	177.3	157.9	137.0	124.1
77.5°	148.3	137.0	116.0	98.3	96.7
80°	114.4	101.5	77.3	72.5	72.5
82.5°	74.1	66.1	54.8	51.6	51.6
85°	45.1	35.5	32.2	32.2	32.2
87.5°	17.7	16.1	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)