

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: P295732

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295732
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-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3153.0 lumens
Efficiency: N/A
Efficacy: 91.4 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

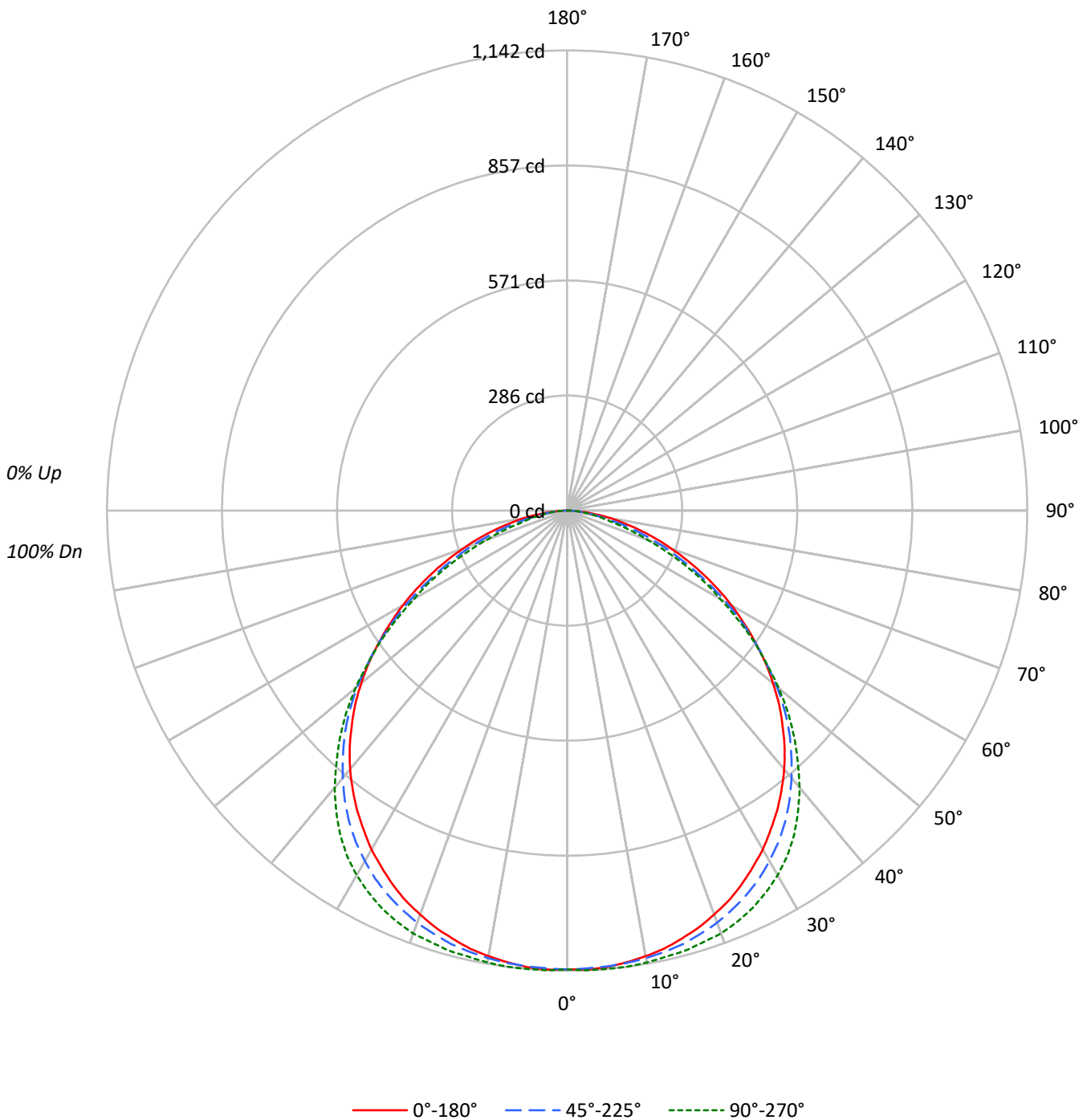
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3064	3064	3064
5°	3072	3067	3084
10°	3069	3081	3111
15°	3063	3102	3150
20°	3054	3117	3198
25°	3041	3125	3232
30°	3017	3120	3246
35°	2984	3098	3226
40°	2943	3042	3153
45°	2879	2968	3034
50°	2793	2846	2872
55°	2675	2667	2653
60°	2537	2453	2360
65°	2364	2194	2074
70°	2157	1922	1676
75°	1938	1596	1254
80°	1723	1165	1093
85°	1355	966	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.4
10°-20°	315.0	10.0
20°-30°	486.2	15.4
30°-40°	589.6	18.7
40°-50°	598.6	19.0
50°-60°	506.4	16.1
60°-70°	342.6	10.9
70°-80°	165.7	5.3
80°-90°	40.4	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°	909.6	28.8
0°-40°	1499.2	47.5
0°-60°	2604.3	82.6
0°-90°	3153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1137	1137	1136	1140	1142	108
15°	1100	1106	1114	1126	1131	311
25°	1024	1032	1052	1079	1088	472
35°	908	918	943	973	982	568
45°	756	758	780	796	797	583
55°	570	565	568	568	565	510
65°	371	356	345	330	326	368
75°	186	172	154	133	121	199
85°	44	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°	1138.7	1138.7	1138.7	1138.7	1138.7
2.5°	1140.2	1140.2	1137.1	1140.2	1141.8
5°	1137.1	1137.1	1135.5	1140.2	1141.8
7.5°	1130.8	1132.4	1132.4	1138.7	1141.8
10°	1123.0	1126.1	1127.7	1137.1	1138.7
12.5°	1113.6	1116.7	1121.4	1132.4	1134.0
15°	1099.5	1105.8	1113.6	1126.1	1130.8
17.5°	1085.4	1091.7	1101.1	1118.3	1123.0
20°	1066.6	1074.4	1088.5	1108.9	1116.7
22.5°	1047.8	1054.1	1071.3	1096.4	1104.2
25°	1024.3	1032.2	1052.5	1079.1	1088.5
27.5°	997.7	1008.7	1030.6	1058.8	1068.2
30°	971.1	980.5	1004.0	1035.3	1044.7
32.5°	939.7	949.1	975.8	1005.5	1016.5
35°	908.4	917.8	942.9	972.6	982.0
37.5°	874.0	880.2	906.9	931.9	941.3
40°	837.9	842.6	866.1	891.2	897.5
42.5°	798.8	801.9	823.8	845.8	847.3
45°	756.5	758.1	780.0	795.7	797.2
47.5°	714.2	712.6	731.4	742.4	744.0
50°	667.2	667.2	679.8	686.0	686.0
52.5°	620.2	617.1	623.4	628.1	623.4
55°	570.1	565.4	568.5	568.5	565.4
57.5°	520.0	510.6	512.2	509.0	501.2
60°	471.4	460.5	455.8	444.8	438.5
62.5°	421.3	408.8	399.4	386.9	385.3
65°	371.2	355.5	344.6	330.5	325.8
67.5°	322.6	308.6	292.9	277.2	267.8
70°	274.1	258.4	244.3	224.0	213.0
72.5°	230.2	216.1	198.9	175.4	167.6
75°	186.4	172.3	153.5	133.1	120.6
77.5°	144.1	133.1	112.8	95.5	94.0
80°	111.2	98.7	75.2	70.5	70.5
82.5°	72.0	64.2	53.3	50.1	50.1
85°	43.9	34.5	31.3	31.3	31.3
87.5°	17.2	15.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)