

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: P295690

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295690
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-L83050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3175.0 lumens
Efficiency: N/A
Efficacy: 92.5 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

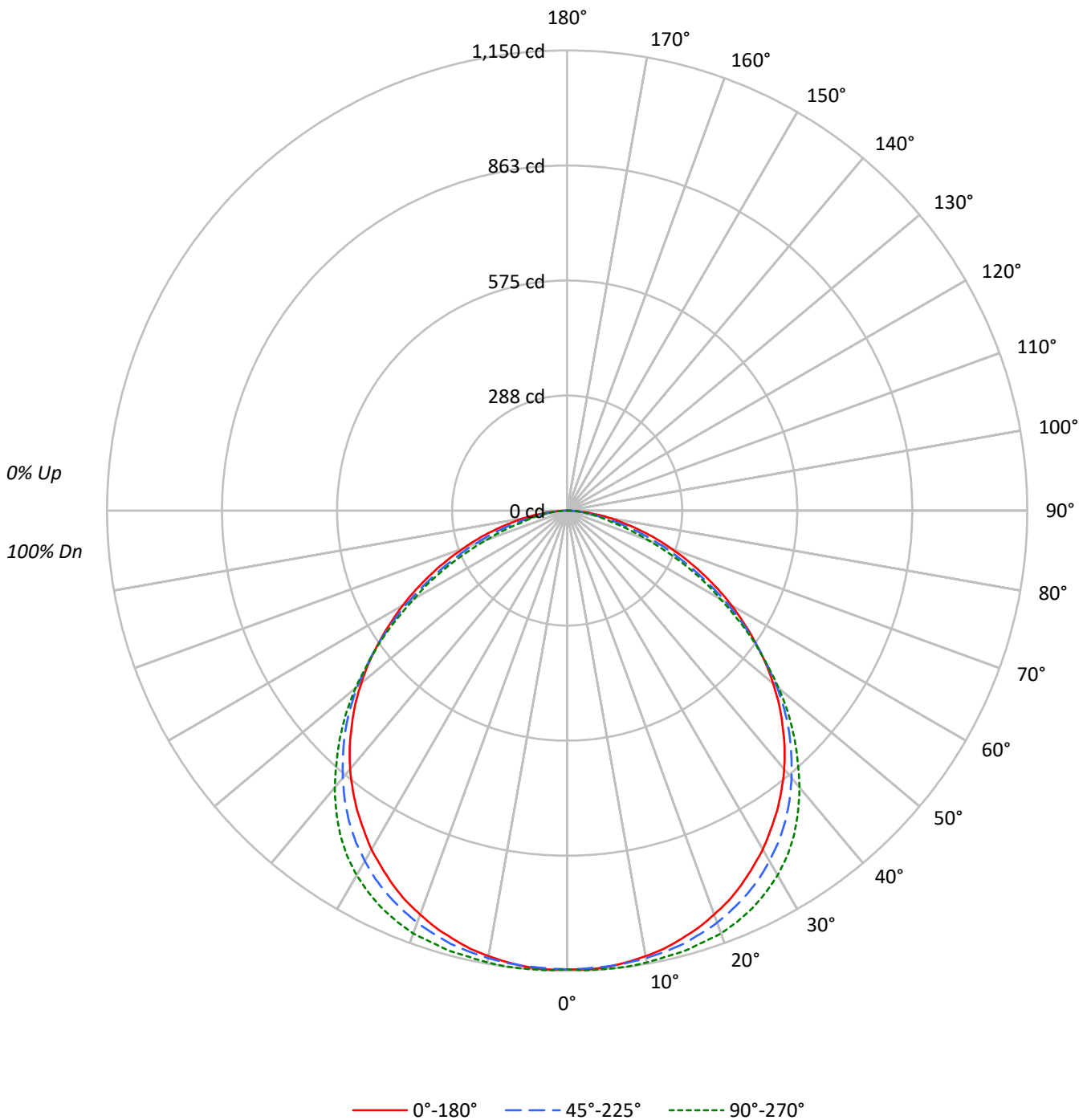
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3085	3085	3085
5°	3093	3089	3106
10°	3090	3103	3133
15°	3085	3124	3172
20°	3076	3139	3220
25°	3063	3147	3255
30°	3039	3141	3269
35°	3005	3119	3249
40°	2964	3064	3175
45°	2899	2989	3055
50°	2813	2866	2892
55°	2693	2686	2671
60°	2555	2470	2377
65°	2380	2209	2089
70°	2172	1936	1688
75°	1952	1607	1262
80°	1736	1173	1100
85°	1365	973	973



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	3.4
10°-20°	317.2	10.0
20°-30°	489.6	15.4
30°-40°	593.7	18.7
40°-50°	602.8	19.0
50°-60°	510.0	16.1
60°-70°	345.0	10.9
70°-80°	166.8	5.3
80°-90°	40.7	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°	915.9	28.8
0°-40°	1509.7	47.5
0°-60°	2622.5	82.6
0°-90°	3175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1145	1145	1144	1148	1150	109
15°	1107	1114	1121	1134	1139	313
25°	1032	1039	1060	1087	1096	475
35°	915	924	950	979	989	572
45°	762	763	785	801	803	587
55°	574	569	572	572	569	513
65°	374	358	347	333	328	371
75°	188	174	155	134	121	200
85°	44	35	32	32	32	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1146.6	1146.6	1146.6	1146.6	1146.6
2.5°	1148.2	1148.2	1145.0	1148.2	1149.8
5°	1145.0	1145.0	1143.5	1148.2	1149.8
7.5°	1138.7	1140.3	1140.3	1146.6	1149.8
10°	1130.8	1134.0	1135.6	1145.0	1146.6
12.5°	1121.4	1124.5	1129.3	1140.3	1141.9
15°	1107.2	1113.5	1121.4	1134.0	1138.7
17.5°	1093.0	1099.3	1108.8	1126.1	1130.8
20°	1074.1	1081.9	1096.1	1116.6	1124.5
22.5°	1055.1	1061.4	1078.8	1104.0	1111.9
25°	1031.5	1039.4	1059.9	1086.7	1096.1
27.5°	1004.7	1015.7	1037.8	1066.2	1075.6
30°	977.9	987.3	1011.0	1042.5	1052.0
32.5°	946.3	955.8	982.6	1012.5	1023.6
35°	914.8	924.2	949.5	979.4	988.9
37.5°	880.1	886.4	913.2	938.4	947.9
40°	843.8	848.5	872.2	897.4	903.7
42.5°	804.4	807.5	829.6	851.7	853.3
45°	761.8	763.4	785.4	801.2	802.8
47.5°	719.2	717.6	736.5	747.6	749.2
50°	671.9	671.9	684.5	690.8	690.8
52.5°	624.6	621.4	627.7	632.4	627.7
55°	574.1	569.4	572.5	572.5	569.4
57.5°	523.6	514.2	515.7	512.6	504.7
60°	474.7	463.7	459.0	447.9	441.6
62.5°	424.3	411.6	402.2	389.6	388.0
65°	373.8	358.0	347.0	332.8	328.1
67.5°	324.9	310.7	294.9	279.2	269.7
70°	276.0	260.2	246.0	225.5	214.5
72.5°	231.8	217.7	200.3	176.6	168.8
75°	187.7	173.5	154.6	134.1	121.4
77.5°	145.1	134.1	113.6	96.2	94.6
80°	112.0	99.4	75.7	71.0	71.0
82.5°	72.6	64.7	53.6	50.5	50.5
85°	44.2	34.7	31.5	31.5	31.5
87.5°	17.3	15.8	15.8	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)