

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: P295689

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295689
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-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: 3024.0 lumens
Efficiency: N/A
Efficacy: 90.1 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

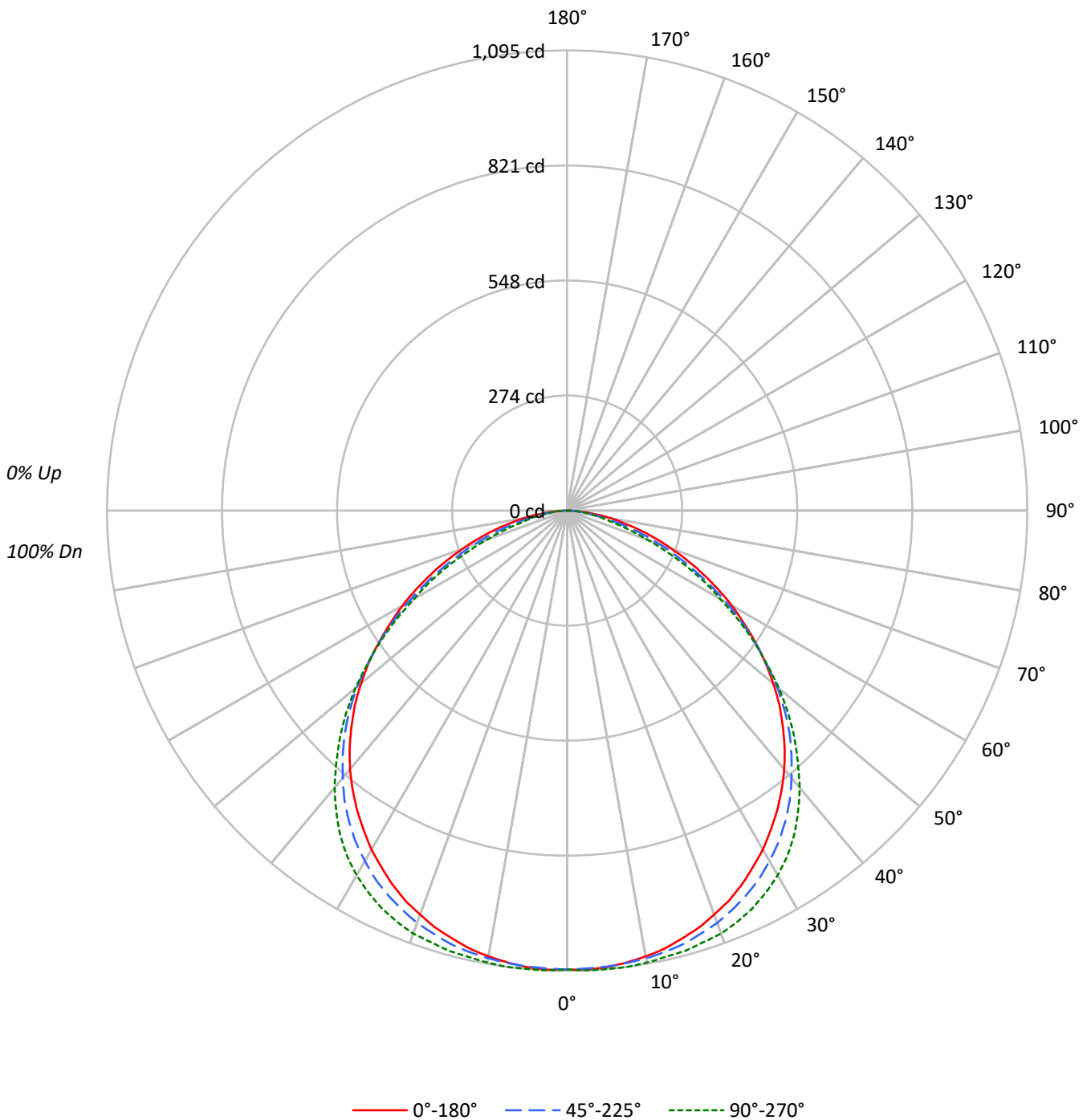
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2939	2939	2939
5°	2946	2942	2958
10°	2943	2955	2984
15°	2938	2975	3022
20°	2930	2990	3067
25°	2917	2997	3100
30°	2894	2992	3113
35°	2862	2971	3094
40°	2823	2918	3023
45°	2761	2847	2910
50°	2679	2729	2755
55°	2565	2558	2544
60°	2434	2352	2264
65°	2267	2104	1990
70°	2068	1843	1607
75°	1859	1530	1203
80°	1654	1117	1048
85°	1300	926	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.0	3.4
10°-20°	302.1	10.0
20°-30°	466.3	15.4
30°-40°	565.5	18.7
40°-50°	574.2	19.0
50°-60°	485.7	16.1
60°-70°	328.6	10.9
70°-80°	158.9	5.3
80°-90°	38.8	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°	872.4	28.8
0°-40°	1437.9	47.5
0°-60°	2497.7	82.6
0°-90°	3024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1091	1091	1089	1094	1095	104
15°	1054	1060	1068	1080	1085	298
25°	982	990	1010	1035	1044	453
35°	871	880	904	933	942	545
45°	726	727	748	763	765	559
55°	547	542	545	545	542	489
65°	356	341	330	317	312	353
75°	179	165	147	128	116	190
85°	42	33	30	30	30	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.1	1092.1	1092.1	1092.1	1092.1
2.5°	1093.6	1093.6	1090.6	1093.6	1095.1
5°	1090.6	1090.6	1089.1	1093.6	1095.1
7.5°	1084.6	1086.1	1086.1	1092.1	1095.1
10°	1077.1	1080.1	1081.6	1090.6	1092.1
12.5°	1068.0	1071.0	1075.6	1086.1	1087.6
15°	1054.5	1060.5	1068.0	1080.1	1084.6
17.5°	1041.0	1047.0	1056.0	1072.5	1077.1
20°	1023.0	1030.5	1044.0	1063.5	1071.0
22.5°	1005.0	1011.0	1027.5	1051.5	1059.0
25°	982.4	989.9	1009.5	1035.0	1044.0
27.5°	956.9	967.4	988.4	1015.5	1024.5
30°	931.3	940.4	962.9	992.9	1001.9
32.5°	901.3	910.3	935.9	964.4	974.9
35°	871.3	880.3	904.3	932.8	941.9
37.5°	838.2	844.2	869.8	893.8	902.8
40°	803.7	808.2	830.7	854.7	860.7
42.5°	766.1	769.1	790.1	811.2	812.7
45°	725.5	727.0	748.1	763.1	764.6
47.5°	685.0	683.5	701.5	712.0	713.5
50°	639.9	639.9	651.9	658.0	658.0
52.5°	594.9	591.9	597.9	602.4	597.9
55°	546.8	542.3	545.3	545.3	542.3
57.5°	498.7	489.7	491.2	488.2	480.7
60°	452.2	441.6	437.1	426.6	420.6
62.5°	404.1	392.1	383.1	371.0	369.5
65°	356.0	341.0	330.5	317.0	312.5
67.5°	309.4	295.9	280.9	265.9	256.9
70°	262.9	247.9	234.3	214.8	204.3
72.5°	220.8	207.3	190.8	168.2	160.7
75°	178.8	165.2	147.2	127.7	115.7
77.5°	138.2	127.7	108.2	91.6	90.1
80°	106.7	94.6	72.1	67.6	67.6
82.5°	69.1	61.6	51.1	48.1	48.1
85°	42.1	33.0	30.0	30.0	30.0
87.5°	16.5	15.0	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)