

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: P295688

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295688
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-3000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2858.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

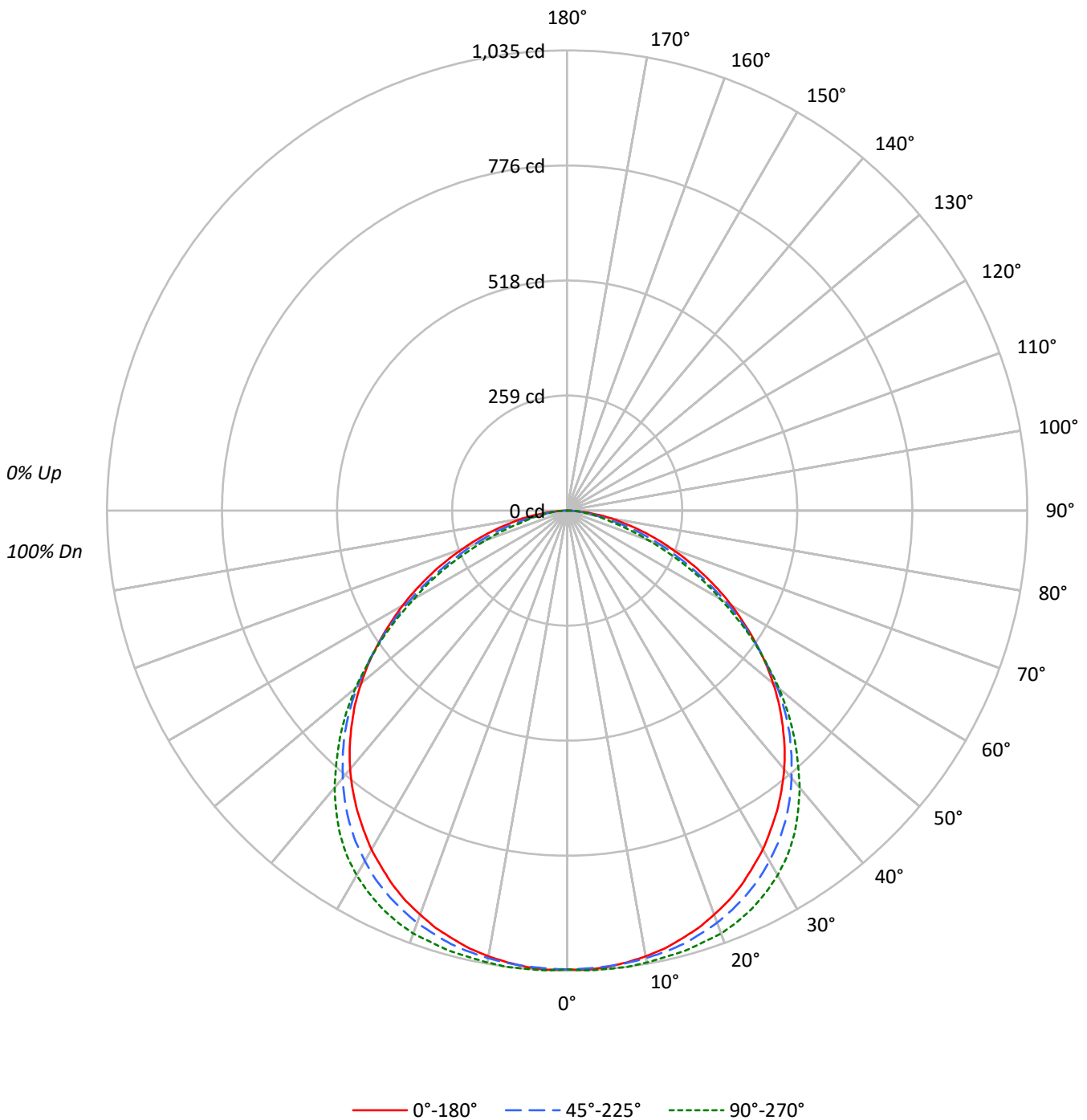
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2777	2777	2777
5°	2784	2780	2796
10°	2781	2793	2820
15°	2776	2812	2856
20°	2769	2826	2899
25°	2757	2833	2930
30°	2735	2828	2942
35°	2705	2808	2924
40°	2668	2758	2858
45°	2610	2691	2750
50°	2532	2580	2603
55°	2425	2418	2404
60°	2300	2223	2139
65°	2143	1989	1880
70°	1954	1743	1519
75°	1756	1446	1136
80°	1562	1055	990
85°	1229	877	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	3.4
10°-20°	285.5	10.0
20°-30°	440.7	15.4
30°-40°	534.5	18.7
40°-50°	542.6	19.0
50°-60°	459.0	16.1
60°-70°	310.6	10.9
70°-80°	150.2	5.3
80°-90°	36.6	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°	824.5	28.8
0°-40°	1358.9	47.5
0°-60°	2360.6	82.6
0°-90°	2858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1031	1031	1029	1034	1035	98
15°	997	1002	1009	1021	1025	281
25°	928	936	954	978	987	428
35°	823	832	855	882	890	515
45°	686	687	707	721	723	529
55°	517	512	515	515	512	462
65°	336	322	312	300	295	334
75°	169	156	139	121	109	180
85°	40	31	28	28	28	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.1	1032.1	1032.1	1032.1	1032.1
2.5°	1033.5	1033.5	1030.7	1033.5	1035.0
5°	1030.7	1030.7	1029.3	1033.5	1035.0
7.5°	1025.0	1026.4	1026.4	1032.1	1035.0
10°	1017.9	1020.8	1022.2	1030.7	1032.1
12.5°	1009.4	1012.3	1016.5	1026.4	1027.9
15°	996.6	1002.3	1009.4	1020.8	1025.0
17.5°	983.9	989.5	998.1	1013.7	1017.9
20°	966.8	973.9	986.7	1005.2	1012.3
22.5°	949.8	955.5	971.1	993.8	1000.9
25°	928.5	935.6	954.0	978.2	986.7
27.5°	904.4	914.3	934.2	959.7	968.2
30°	880.2	888.7	910.0	938.4	946.9
32.5°	851.8	860.3	884.5	911.5	921.4
35°	823.4	831.9	854.7	881.6	890.2
37.5°	792.2	797.9	822.0	844.7	853.2
40°	759.5	763.8	785.1	807.8	813.5
42.5°	724.1	726.9	746.8	766.6	768.1
45°	685.7	687.1	707.0	721.2	722.6
47.5°	647.4	646.0	663.0	672.9	674.4
50°	604.8	604.8	616.2	621.8	621.8
52.5°	562.2	559.4	565.0	569.3	565.0
55°	516.8	512.5	515.4	515.4	512.5
57.5°	471.3	462.8	464.2	461.4	454.3
60°	427.3	417.4	413.1	403.2	397.5
62.5°	381.9	370.5	362.0	350.7	349.2
65°	336.5	322.3	312.3	299.6	295.3
67.5°	292.5	279.7	265.5	251.3	242.8
70°	248.4	234.3	221.5	203.0	193.1
72.5°	208.7	195.9	180.3	159.0	151.9
75°	168.9	156.2	139.1	120.7	109.3
77.5°	130.6	120.7	102.2	86.6	85.2
80°	100.8	89.4	68.1	63.9	63.9
82.5°	65.3	58.2	48.3	45.4	45.4
85°	39.8	31.2	28.4	28.4	28.4
87.5°	15.6	14.2	14.2	14.2	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)