

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: P295794

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295794
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-LD5-31-RDP-UNV-L92765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2512.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

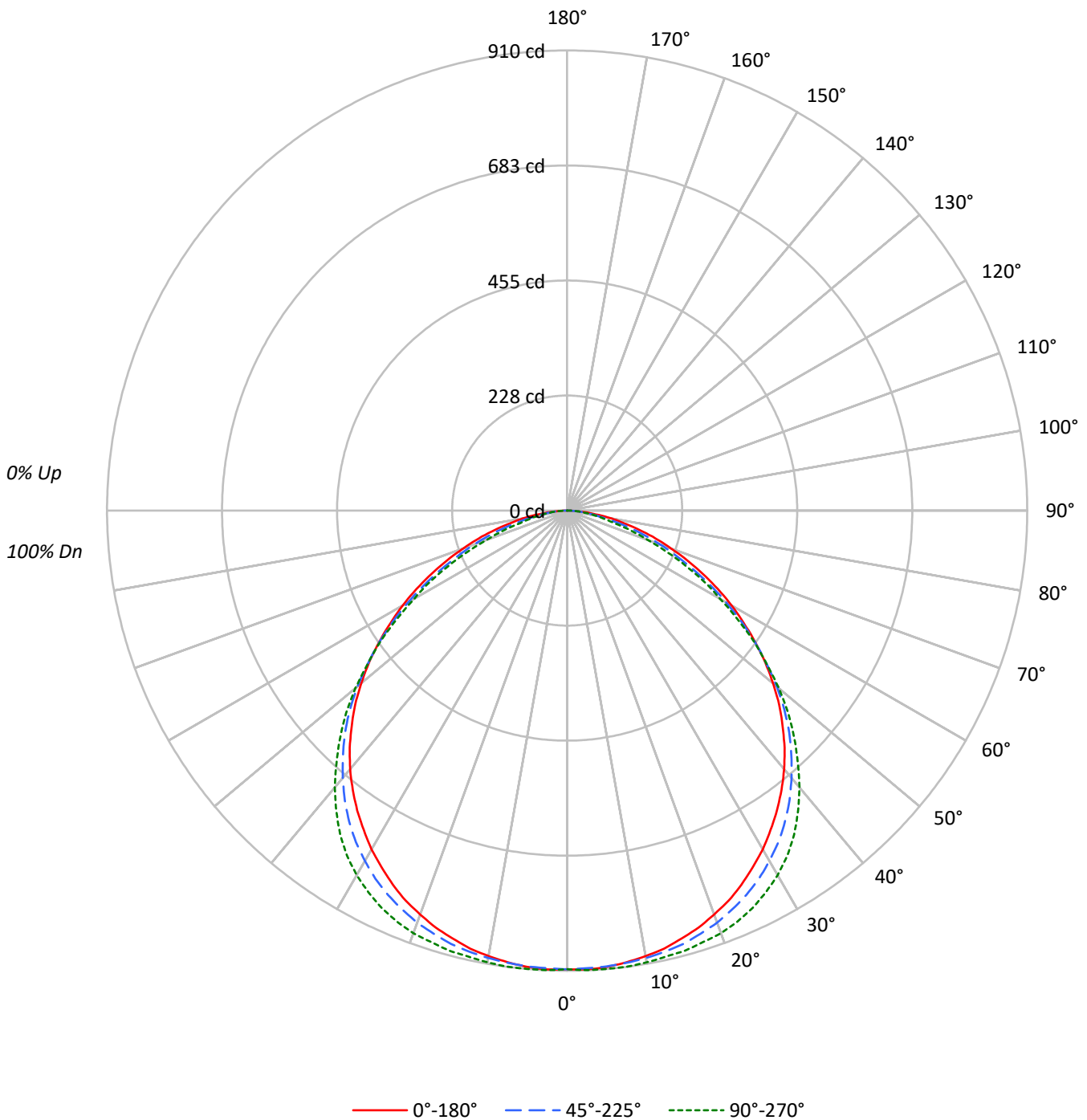
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2441	2441	2441
5°	2447	2444	2457
10°	2445	2455	2479
15°	2440	2472	2510
20°	2434	2483	2548
25°	2423	2490	2575
30°	2404	2486	2586
35°	2377	2468	2570
40°	2345	2424	2512
45°	2294	2365	2417
50°	2226	2267	2288
55°	2131	2125	2114
60°	2021	1954	1880
65°	1883	1748	1652
70°	1718	1532	1335
75°	1544	1272	999
80°	1373	928	871
85°	1078	772	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	3.4
10°-20°	251.0	10.0
20°-30°	387.3	15.4
30°-40°	469.8	18.7
40°-50°	477.0	19.0
50°-60°	403.5	16.1
60°-70°	273.0	10.9
70°-80°	132.0	5.3
80°-90°	32.2	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°	724.6	28.8
0°-40°	1194.4	47.5
0°-60°	2074.8	82.6
0°-90°	2512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	906	906	905	908	910	86
15°	876	881	887	897	901	247
25°	816	822	838	860	867	376
35°	724	731	751	775	782	452
45°	603	604	621	634	635	465
55°	454	450	453	453	450	406
65°	296	283	274	263	260	293
75°	148	137	122	106	96	158
85°	35	28	25	25	25	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.2	907.2	907.2	907.2	907.2
2.5°	908.4	908.4	905.9	908.4	909.7
5°	905.9	905.9	904.7	908.4	909.7
7.5°	900.9	902.2	902.2	907.2	909.7
10°	894.7	897.2	898.4	905.9	907.2
12.5°	887.2	889.7	893.4	902.2	903.4
15°	876.0	881.0	887.2	897.2	900.9
17.5°	864.7	869.7	877.2	891.0	894.7
20°	849.8	856.0	867.2	883.5	889.7
22.5°	834.8	839.8	853.5	873.5	879.7
25°	816.1	822.3	838.5	859.8	867.2
27.5°	794.9	803.6	821.1	843.5	851.0
30°	773.7	781.1	799.9	824.8	832.3
32.5°	748.7	756.2	777.4	801.1	809.8
35°	723.7	731.2	751.2	774.9	782.4
37.5°	696.3	701.3	722.5	742.5	749.9
40°	667.6	671.3	690.1	710.0	715.0
42.5°	636.4	638.9	656.4	673.8	675.1
45°	602.7	604.0	621.4	633.9	635.1
47.5°	569.0	567.8	582.7	591.5	592.7
50°	531.6	531.6	541.6	546.6	546.6
52.5°	494.1	491.6	496.6	500.4	496.6
55°	454.2	450.5	453.0	453.0	450.5
57.5°	414.3	406.8	408.0	405.5	399.3
60°	375.6	366.9	363.1	354.4	349.4
62.5°	335.7	325.7	318.2	308.2	307.0
65°	295.7	283.3	274.5	263.3	259.5
67.5°	257.1	245.8	233.3	220.9	213.4
70°	218.4	205.9	194.7	178.4	169.7
72.5°	183.4	172.2	158.5	139.8	133.5
75°	148.5	137.3	122.3	106.1	96.1
77.5°	114.8	106.1	89.8	76.1	74.9
80°	88.6	78.6	59.9	56.2	56.2
82.5°	57.4	51.2	42.4	39.9	39.9
85°	34.9	27.5	25.0	25.0	25.0
87.5°	13.7	12.5	12.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)