

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: P295755

Luminaire Tested: **14RLN-LD5-31-RDP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295755
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-L93050-W2A1-U-4000K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2430.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

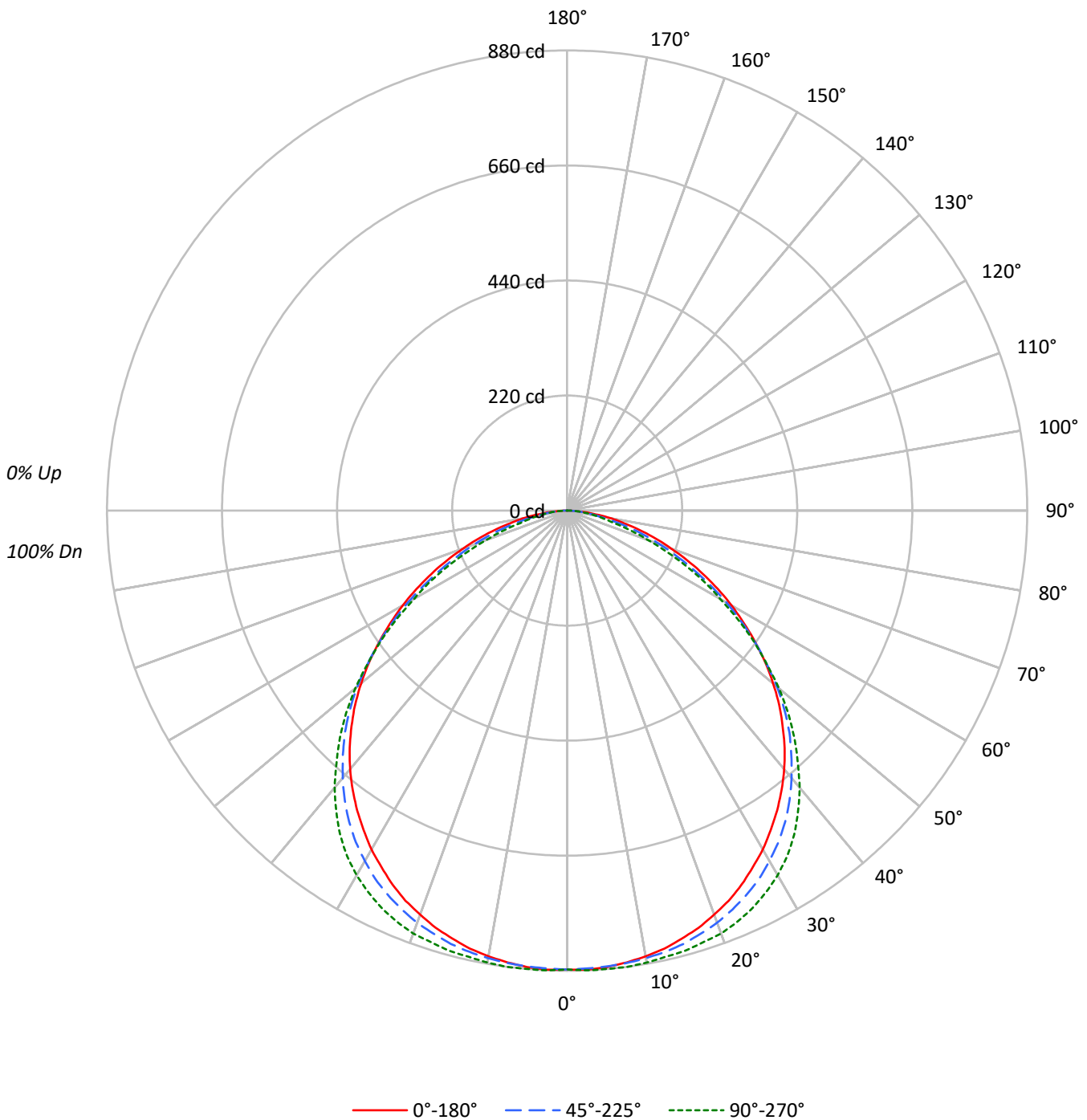
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2362	2362	2362
5°	2367	2364	2377
10°	2365	2375	2398
15°	2361	2391	2428
20°	2354	2402	2465
25°	2344	2409	2491
30°	2325	2404	2502
35°	2300	2387	2486
40°	2269	2345	2430
45°	2219	2288	2338
50°	2153	2193	2213
55°	2061	2056	2045
60°	1955	1891	1819
65°	1822	1691	1599
70°	1662	1482	1292
75°	1493	1230	966
80°	1328	897	841
85°	1044	744	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	3.4
10°-20°	242.8	10.0
20°-30°	374.7	15.4
30°-40°	454.4	18.7
40°-50°	461.4	19.0
50°-60°	390.3	16.1
60°-70°	264.1	10.9
70°-80°	127.7	5.3
80°-90°	31.1	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°	701.0	28.8
0°-40°	1155.4	47.5
0°-60°	2007.1	82.6
0°-90°	2430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	876	876	875	879	880	83
15°	847	852	858	868	872	239
25°	789	796	811	832	839	364
35°	700	707	727	750	757	438
45°	583	584	601	613	614	450
55°	439	436	438	438	436	393
65°	286	274	266	255	251	284
75°	144	133	118	103	93	153
85°	34	27	24	24	24	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.6	877.6	877.6	877.6	877.6
2.5°	878.8	878.8	876.4	878.8	880.0
5°	876.4	876.4	875.1	878.8	880.0
7.5°	871.5	872.7	872.7	877.6	880.0
10°	865.5	867.9	869.1	876.4	877.6
12.5°	858.2	860.7	864.3	872.7	873.9
15°	847.4	852.2	858.2	867.9	871.5
17.5°	836.5	841.3	848.6	861.9	865.5
20°	822.0	828.1	838.9	854.6	860.7
22.5°	807.6	812.4	825.7	845.0	851.0
25°	789.4	795.5	811.2	831.7	838.9
27.5°	768.9	777.4	794.3	816.0	823.2
30°	748.4	755.6	773.8	797.9	805.1
32.5°	724.3	731.5	752.0	775.0	783.4
35°	700.1	707.4	726.7	749.6	756.9
37.5°	673.6	678.4	698.9	718.2	725.5
40°	645.8	649.4	667.5	686.8	691.7
42.5°	615.6	618.0	634.9	651.8	653.0
45°	583.0	584.2	601.1	613.2	614.4
47.5°	550.4	549.2	563.7	572.2	573.4
50°	514.2	514.2	523.9	528.7	528.7
52.5°	478.0	475.6	480.4	484.0	480.4
55°	439.4	435.8	438.2	438.2	435.8
57.5°	400.8	393.5	394.7	392.3	386.3
60°	363.3	354.9	351.3	342.8	338.0
62.5°	324.7	315.1	307.8	298.2	296.9
65°	286.1	274.0	265.6	254.7	251.1
67.5°	248.7	237.8	225.7	213.7	206.4
70°	211.2	199.2	188.3	172.6	164.2
72.5°	177.4	166.6	153.3	135.2	129.2
75°	143.6	132.8	118.3	102.6	92.9
77.5°	111.1	102.6	86.9	73.6	72.4
80°	85.7	76.0	57.9	54.3	54.3
82.5°	55.5	49.5	41.0	38.6	38.6
85°	33.8	26.6	24.1	24.1	24.1
87.5°	13.3	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)