

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: P295652

Luminaire Tested: **14RLN-LD5-31-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-31-UNV-L92765-W2A1-U-5500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2929.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

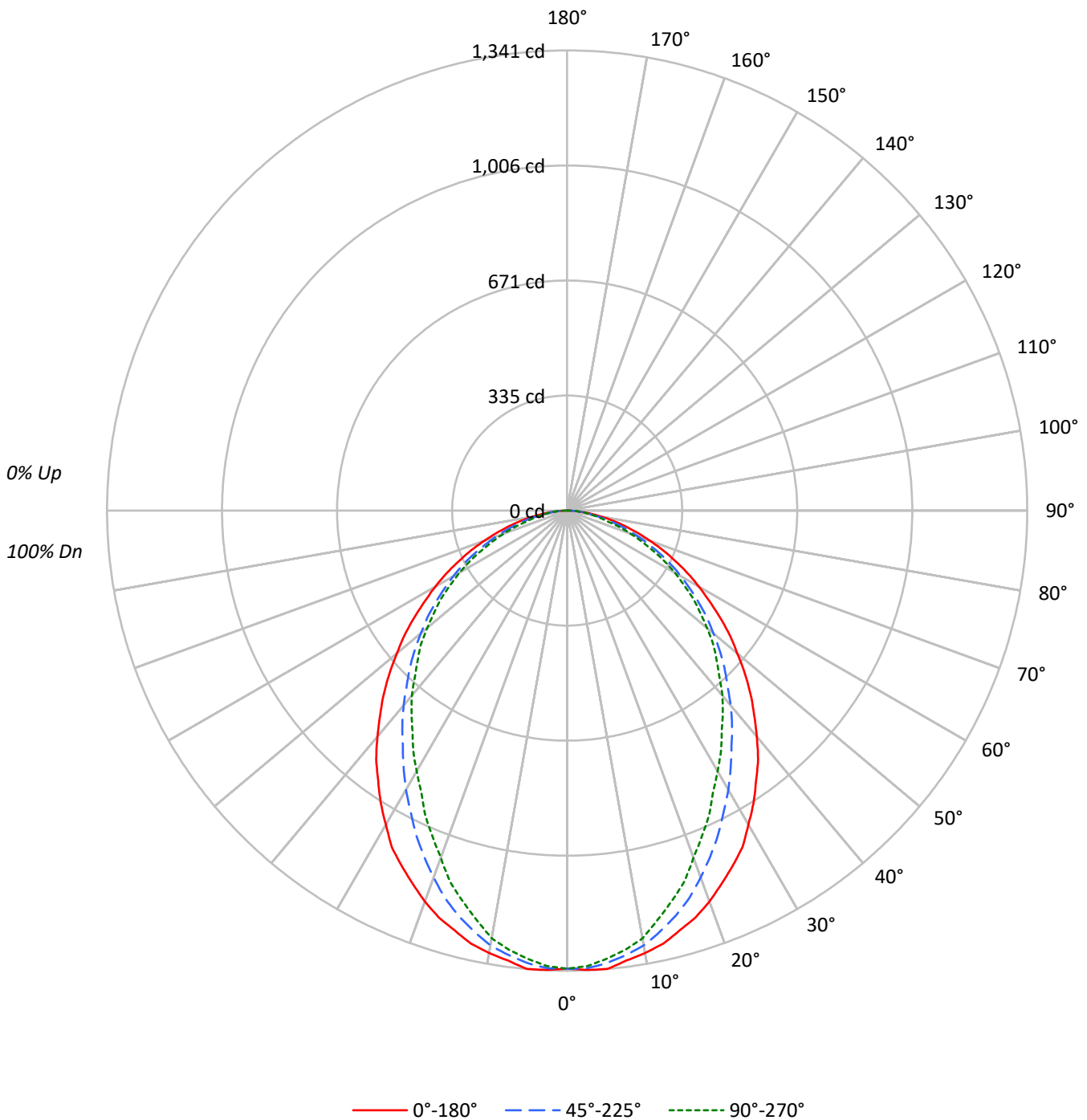
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3592	3592	3592
5°	3623	3576	3542
10°	3577	3516	3458
15°	3529	3405	3281
20°	3472	3259	3082
25°	3390	3093	2906
30°	3283	2918	2726
35°	3154	2743	2581
40°	3020	2603	2473
45°	2877	2467	2345
50°	2709	2331	2227
55°	2554	2200	2107
60°	2390	2064	1951
65°	2213	1906	1749
70°	2015	1713	1548
75°	1813	1530	1260
80°	1553	1246	1189
85°	1260	1186	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	4.3
10°-20°	343.1	11.7
20°-30°	481.5	16.4
30°-40°	534.0	18.2
40°-50°	512.7	17.5
50°-60°	429.6	14.7
60°-70°	301.6	10.3
70°-80°	157.5	5.4
80°-90°	44.1	1.5
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°	949.5	32.4
0°-40°	1483.5	50.7
0°-60°	2425.8	82.8
0°-90°	2929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1335	1335	1335	1335	1335	
5°	1341	1324	1324	1315	1311	127
15°	1267	1245	1222	1190	1178	357
25°	1142	1101	1042	991	979	526
35°	960	907	835	794	786	601
45°	756	698	648	624	616	582
55°	544	504	469	454	449	487
65°	348	324	299	281	275	345
75°	174	161	147	130	121	185
85°	41	38	38	38	38	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1334.9	1334.9	1334.9	1334.9	1334.9
2.5°	1339.9	1332.4	1334.9	1334.9	1328.7
5°	1341.1	1323.8	1323.8	1315.1	1311.4
7.5°	1322.5	1308.9	1306.5	1295.3	1291.6
10°	1308.9	1295.3	1286.7	1271.8	1265.6
12.5°	1292.9	1271.8	1255.7	1231.0	1221.1
15°	1266.9	1244.6	1222.3	1190.2	1177.8
17.5°	1243.4	1217.4	1184.0	1148.1	1134.5
20°	1212.4	1181.5	1138.2	1088.7	1076.3
22.5°	1176.6	1140.7	1090.0	1036.8	1026.9
25°	1141.9	1101.1	1041.7	991.0	978.6
27.5°	1106.0	1056.6	988.5	934.1	921.7
30°	1056.6	1005.8	939.0	885.8	877.2
32.5°	1010.8	960.1	887.1	843.8	833.9
35°	960.1	906.9	835.1	794.3	785.6
37.5°	914.3	852.4	789.3	749.7	744.8
40°	859.8	804.2	741.1	711.4	704.0
42.5°	806.6	751.0	691.6	665.6	656.9
45°	755.9	697.8	648.3	623.5	616.1
47.5°	702.7	649.5	602.5	582.7	577.8
50°	647.0	600.0	556.7	538.2	532.0
52.5°	597.6	549.3	513.4	496.1	488.7
55°	544.4	503.5	468.9	454.0	449.1
57.5°	491.2	457.8	424.4	410.7	403.3
60°	444.1	410.7	383.5	367.4	362.5
62.5°	395.9	367.4	341.5	326.6	320.4
65°	347.6	324.1	299.4	280.8	274.7
67.5°	303.1	277.1	257.3	241.3	235.1
70°	256.1	237.5	217.7	202.9	196.7
72.5°	212.8	199.2	181.9	165.8	159.6
75°	174.4	160.8	147.2	129.9	121.2
77.5°	136.1	127.4	113.8	99.0	99.0
80°	100.2	95.3	80.4	77.9	76.7
82.5°	69.3	66.8	58.1	56.9	56.9
85°	40.8	38.4	38.4	38.4	38.4
87.5°	17.3	18.6	19.8	19.8	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)