

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: P295654

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295654
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-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2961.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

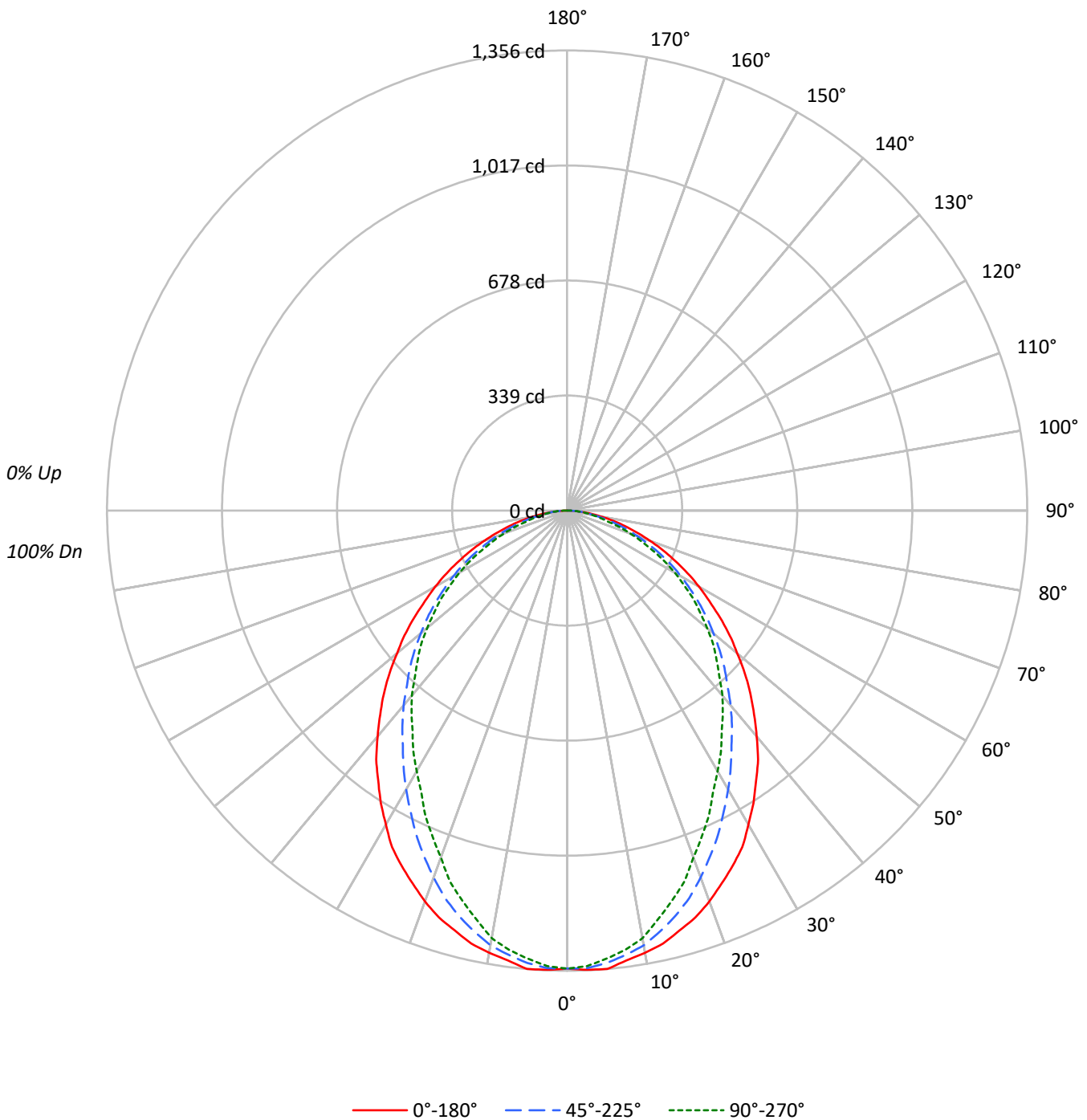
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3631	3631	3631
5°	3662	3615	3581
10°	3616	3554	3496
15°	3568	3443	3317
20°	3510	3295	3116
25°	3428	3127	2937
30°	3319	2950	2755
35°	3188	2773	2609
40°	3053	2632	2500
45°	2908	2494	2370
50°	2738	2356	2251
55°	2582	2224	2130
60°	2416	2087	1972
65°	2238	1927	1768
70°	2037	1732	1565
75°	1833	1547	1275
80°	1570	1260	1201
85°	1275	1198	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	4.3
10°-20°	346.8	11.7
20°-30°	486.7	16.4
30°-40°	539.9	18.2
40°-50°	518.3	17.5
50°-60°	434.3	14.7
60°-70°	304.9	10.3
70°-80°	159.2	5.4
80°-90°	44.6	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°	959.9	32.4
0°-40°	1499.7	50.6
0°-60°	2452.3	82.8
0°-90°	2961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1356	1338	1338	1330	1326	128
15°	1281	1258	1236	1203	1191	361
25°	1154	1113	1053	1002	989	531
35°	970	917	844	803	794	608
45°	764	705	655	630	623	589
55°	550	509	474	459	454	492
65°	351	328	303	284	278	349
75°	176	163	149	131	123	187
85°	41	39	39	39	39	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349.5	1349.5	1349.5	1349.5	1349.5
2.5°	1354.5	1347.0	1349.5	1349.5	1343.3
5°	1355.8	1338.2	1338.2	1329.5	1325.7
7.5°	1337.0	1323.2	1320.7	1309.5	1305.7
10°	1323.2	1309.5	1300.7	1285.7	1279.5
12.5°	1307.0	1285.7	1269.5	1244.4	1234.4
15°	1280.7	1258.2	1235.7	1203.2	1190.7
17.5°	1257.0	1230.7	1196.9	1160.6	1146.9
20°	1225.7	1194.4	1150.6	1100.6	1088.1
22.5°	1189.4	1153.1	1101.9	1048.1	1038.1
25°	1154.4	1113.1	1053.1	1001.8	989.3
27.5°	1118.1	1068.1	999.3	944.3	931.8
30°	1068.1	1016.8	949.3	895.5	886.7
32.5°	1021.8	970.5	896.8	853.0	843.0
35°	970.5	916.8	844.2	802.9	794.2
37.5°	924.3	861.7	797.9	757.9	752.9
40°	869.2	813.0	749.2	719.2	711.6
42.5°	815.5	759.2	699.1	672.9	664.1
45°	764.2	705.4	655.4	630.4	622.8
47.5°	710.4	656.6	609.1	589.1	584.1
50°	654.1	606.6	562.8	544.1	537.8
52.5°	604.1	555.3	519.0	501.5	494.0
55°	550.3	509.0	474.0	459.0	454.0
57.5°	496.5	462.8	429.0	415.2	407.7
60°	449.0	415.2	387.7	371.5	366.5
62.5°	400.2	371.5	345.2	330.2	323.9
65°	351.4	327.7	302.7	283.9	277.7
67.5°	306.4	280.2	260.1	243.9	237.6
70°	258.9	240.1	220.1	205.1	198.9
72.5°	215.1	201.4	183.9	167.6	161.3
75°	176.3	162.6	148.8	131.3	122.6
77.5°	137.6	128.8	115.1	100.1	100.1
80°	101.3	96.3	81.3	78.8	77.5
82.5°	70.0	67.5	58.8	57.5	57.5
85°	41.3	38.8	38.8	38.8	38.8
87.5°	17.5	18.8	20.0	20.0	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)