

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: P295671

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295671
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-LD5-40-UNV-L92765-W2A1-U-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3825.0 lumens
Efficiency: N/A
Efficacy: 94.1 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

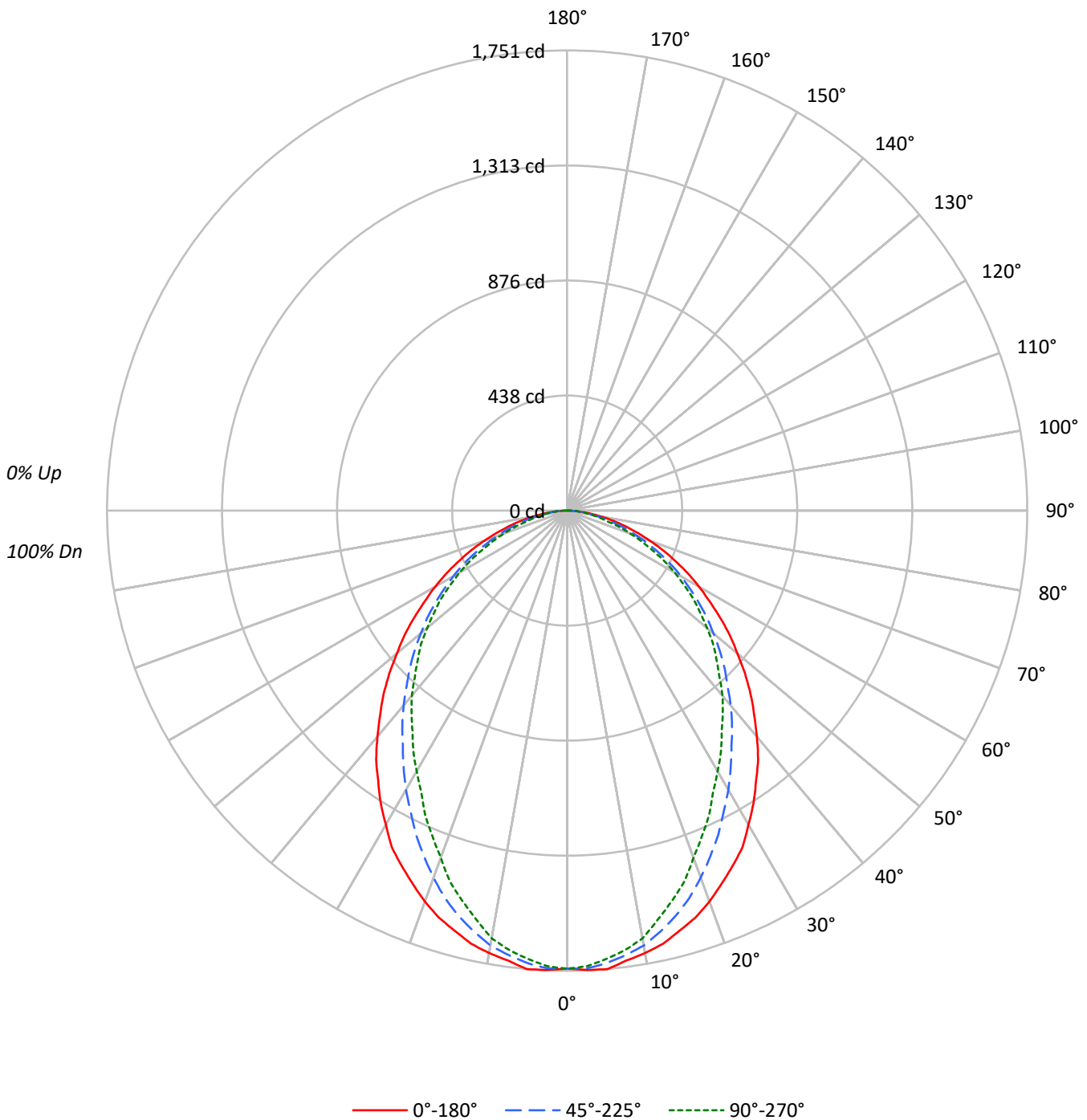
Input Watts (W): 40.641
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4691	4691	4691
5°	4731	4670	4626
10°	4671	4591	4516
15°	4609	4447	4285
20°	4534	4257	4025
25°	4428	4039	3795
30°	4287	3810	3559
35°	4119	3583	3370
40°	3945	3400	3229
45°	3757	3222	3062
50°	3538	3044	2908
55°	3335	2873	2752
60°	3122	2696	2548
65°	2891	2490	2284
70°	2631	2238	2021
75°	2368	1999	1646
80°	2029	1627	1553
85°	1646	1547	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	4.3
10°-20°	448.0	11.7
20°-30°	628.8	16.4
30°-40°	697.4	18.2
40°-50°	669.5	17.5
50°-60°	561.1	14.7
60°-70°	393.9	10.3
70°-80°	205.7	5.4
80°-90°	57.6	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°	1240.0	32.4
0°-40°	1937.4	50.6
0°-60°	3167.9	82.8
0°-90°	3825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1751	1729	1729	1717	1713	165
15°	1654	1625	1596	1554	1538	467
25°	1491	1438	1360	1294	1278	686
35°	1254	1184	1091	1037	1026	785
45°	987	911	847	814	805	760
55°	711	658	612	593	586	636
65°	454	423	391	367	359	451
75°	228	210	192	170	158	241
85°	53	50	50	50	50	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.3	1743.3	1743.3	1743.3	1743.3
2.5°	1749.7	1740.1	1743.3	1743.3	1735.2
5°	1751.4	1728.7	1728.7	1717.4	1712.6
7.5°	1727.1	1709.4	1706.1	1691.6	1686.7
10°	1709.4	1691.6	1680.3	1660.9	1652.8
12.5°	1688.3	1660.9	1639.9	1607.6	1594.6
15°	1654.4	1625.3	1596.3	1554.3	1538.1
17.5°	1623.7	1589.8	1546.2	1499.3	1481.5
20°	1583.3	1542.9	1486.4	1421.8	1405.6
22.5°	1536.5	1489.6	1423.4	1353.9	1341.0
25°	1491.2	1437.9	1360.4	1294.1	1278.0
27.5°	1444.4	1379.8	1290.9	1219.8	1203.7
30°	1379.8	1313.5	1226.3	1156.8	1145.5
32.5°	1320.0	1253.7	1158.4	1101.9	1088.9
35°	1253.7	1184.3	1090.6	1037.2	1025.9
37.5°	1194.0	1113.2	1030.8	979.1	972.6
40°	1122.9	1050.2	967.8	929.0	919.3
42.5°	1053.4	980.7	903.1	869.2	857.9
45°	987.2	911.2	846.6	814.3	804.6
47.5°	917.7	848.2	786.8	761.0	754.5
50°	845.0	783.6	727.0	702.8	694.7
52.5°	780.4	717.3	670.5	647.9	638.2
55°	710.9	657.6	612.3	592.9	586.5
57.5°	641.4	597.8	554.2	536.4	526.7
60°	580.0	536.4	500.9	479.8	473.4
62.5°	517.0	479.8	445.9	426.5	418.5
65°	454.0	423.3	391.0	366.8	358.7
67.5°	395.8	361.9	336.1	315.1	307.0
70°	334.4	310.2	284.4	265.0	256.9
72.5°	277.9	260.1	237.5	216.5	208.4
75°	227.8	210.0	192.3	169.6	158.3
77.5°	177.7	166.4	148.6	129.3	129.3
80°	130.9	124.4	105.0	101.8	100.2
82.5°	90.5	87.2	75.9	74.3	74.3
85°	53.3	50.1	50.1	50.1	50.1
87.5°	22.6	24.2	25.9	25.9	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)