

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: P295594

Luminaire Tested: **14RLN-LD5-40-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295594
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-L82765-W2A1-U-2700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3723.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

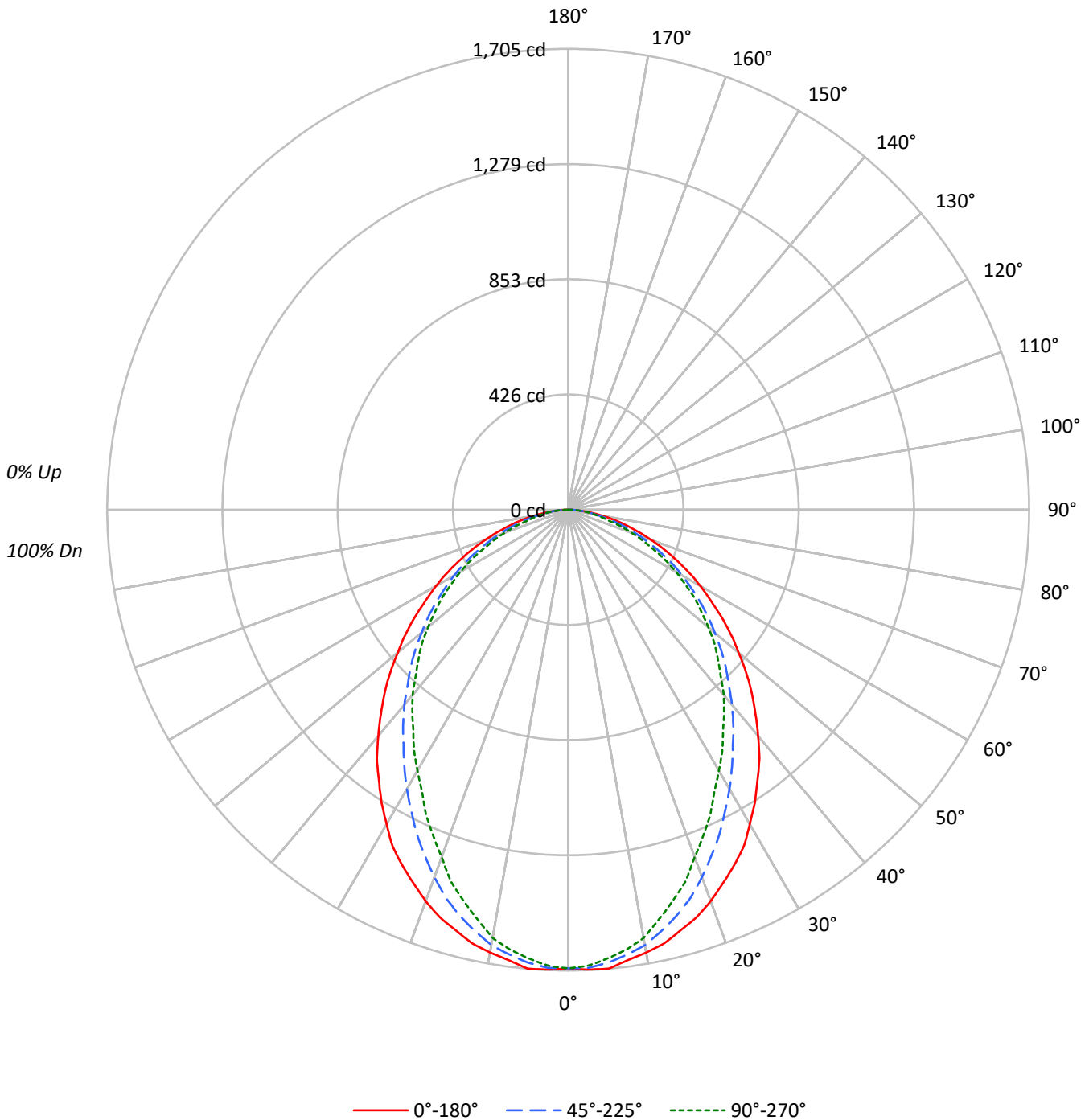
Input Watts (W): 39.432
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4566	4566	4566
5°	4605	4545	4503
10°	4546	4469	4396
15°	4486	4328	4171
20°	4413	4143	3918
25°	4310	3931	3693
30°	4173	3709	3464
35°	4009	3487	3280
40°	3839	3309	3143
45°	3656	3136	2980
50°	3443	2963	2831
55°	3246	2796	2678
60°	3038	2624	2480
65°	2814	2423	2223
70°	2561	2178	1967
75°	2305	1945	1602
80°	1974	1584	1511
85°	1602	1504	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	4.3
10°-20°	436.1	11.7
20°-30°	612.0	16.4
30°-40°	678.8	18.2
40°-50°	651.6	17.5
50°-60°	546.1	14.7
60°-70°	383.4	10.3
70°-80°	200.2	5.4
80°-90°	56.0	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°	1206.9	32.4
0°-40°	1885.7	50.7
0°-60°	3083.4	82.8
0°-90°	3723.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1697	1697	1697	1697	1697	
5°	1705	1683	1683	1672	1667	161
15°	1610	1582	1554	1513	1497	454
25°	1452	1400	1324	1260	1244	668
35°	1220	1153	1062	1010	999	764
45°	961	887	824	793	783	740
55°	692	640	596	577	571	619
65°	442	412	381	357	349	439
75°	222	204	187	165	154	235
85°	52	49	49	49	49	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.8	1696.8	1696.8	1696.8	1696.8
2.5°	1703.1	1693.6	1696.8	1696.8	1688.9
5°	1704.7	1682.6	1682.6	1671.6	1666.9
7.5°	1681.1	1663.8	1660.6	1646.5	1641.8
10°	1663.8	1646.5	1635.5	1616.6	1608.7
12.5°	1643.3	1616.6	1596.2	1564.7	1552.1
15°	1610.3	1582.0	1553.7	1512.8	1497.1
17.5°	1580.4	1547.4	1504.9	1459.3	1442.0
20°	1541.1	1501.8	1446.8	1383.9	1368.1
22.5°	1495.5	1449.9	1385.4	1317.8	1305.2
25°	1451.5	1399.6	1324.1	1259.6	1243.9
27.5°	1405.9	1343.0	1256.5	1187.3	1171.6
30°	1343.0	1278.5	1193.6	1126.0	1114.9
32.5°	1284.8	1220.3	1127.5	1072.5	1059.9
35°	1220.3	1152.7	1061.5	1009.6	998.6
37.5°	1162.1	1083.5	1003.3	953.0	946.7
40°	1092.9	1022.2	942.0	904.2	894.8
42.5°	1025.3	954.5	879.1	846.0	835.0
45°	960.8	886.9	824.0	792.6	783.1
47.5°	893.2	825.6	765.8	740.7	734.4
50°	822.4	762.7	707.7	684.1	676.2
52.5°	759.5	698.2	652.6	630.6	621.2
55°	691.9	640.0	596.0	577.1	570.8
57.5°	624.3	581.8	539.4	522.1	512.7
60°	564.5	522.1	487.5	467.1	460.8
62.5°	503.2	467.1	434.0	415.2	407.3
65°	441.9	412.0	380.6	357.0	349.1
67.5°	385.3	352.3	327.1	306.6	298.8
70°	325.5	301.9	276.8	257.9	250.0
72.5°	270.5	253.2	231.2	210.7	202.9
75°	221.7	204.4	187.1	165.1	154.1
77.5°	173.0	162.0	144.7	125.8	125.8
80°	127.4	121.1	102.2	99.1	97.5
82.5°	88.1	84.9	73.9	72.3	72.3
85°	51.9	48.7	48.7	48.7	48.7
87.5°	22.0	23.6	25.2	25.2	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)