

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: P295672

Luminaire Tested: **14RLN-LD5-40-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295672
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-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: 3850.0 lumens
Efficiency: N/A
Efficacy: 93.2 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

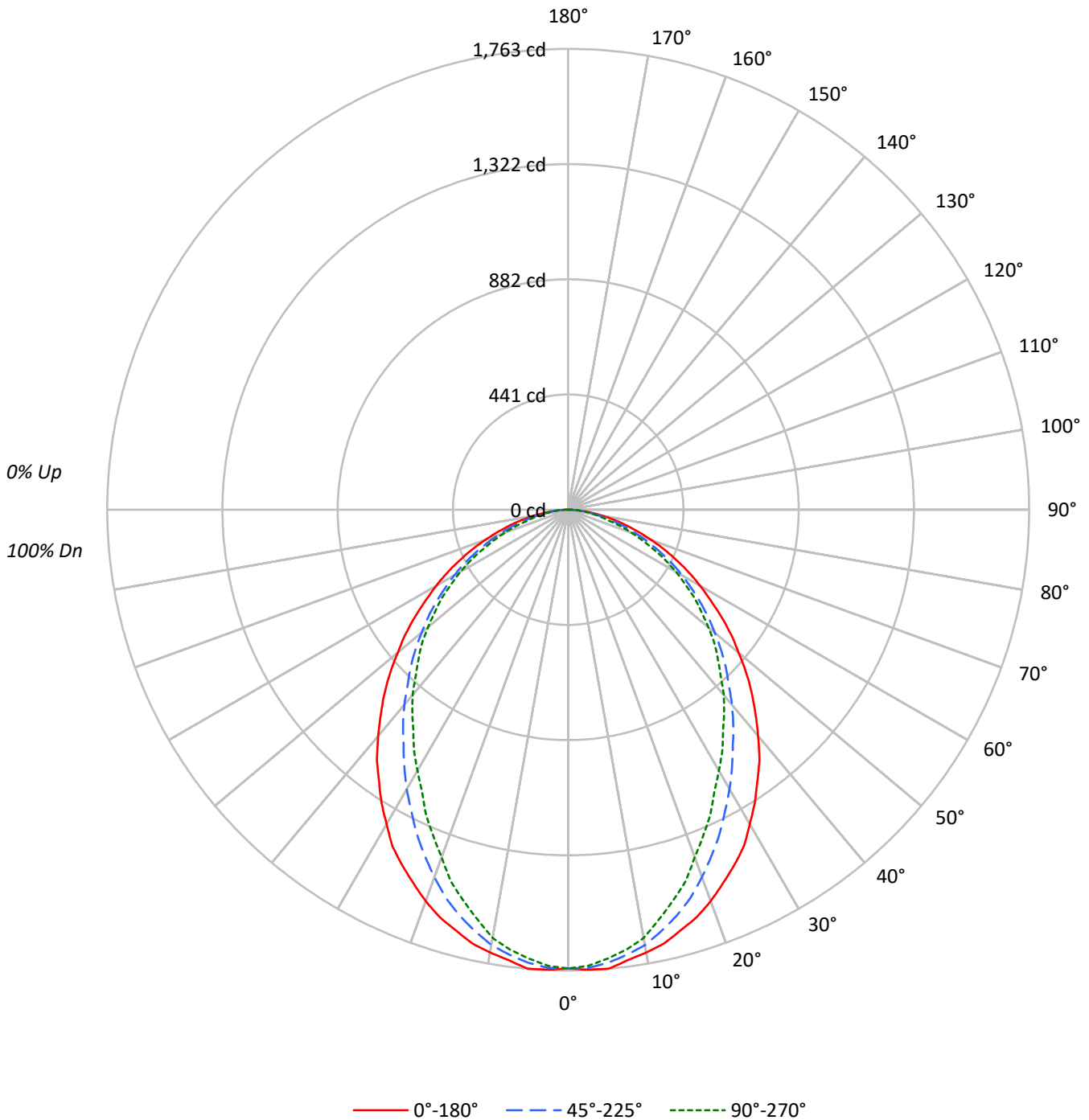
Input Watts (W): 41.292
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4722	4722	4722
5°	4762	4700	4656
10°	4701	4621	4546
15°	4639	4476	4313
20°	4564	4284	4052
25°	4457	4066	3819
30°	4315	3835	3583
35°	4145	3606	3392
40°	3970	3422	3250
45°	3781	3243	3082
50°	3561	3064	2928
55°	3357	2891	2769
60°	3142	2713	2565
65°	2910	2506	2299
70°	2648	2252	2035
75°	2384	2012	1657
80°	2041	1638	1562
85°	1658	1556	1556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	4.3
10°-20°	450.9	11.7
20°-30°	632.9	16.4
30°-40°	701.9	18.2
40°-50°	673.9	17.5
50°-60°	564.8	14.7
60°-70°	396.4	10.3
70°-80°	207.0	5.4
80°-90°	57.9	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°	1248.1	32.4
0°-40°	1950.0	50.7
0°-60°	3188.6	82.8
0°-90°	3850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1755	1755	1755	1755	1755	
5°	1763	1740	1740	1729	1724	166
15°	1665	1636	1607	1564	1548	470
25°	1501	1447	1369	1303	1286	691
35°	1262	1192	1098	1044	1033	790
45°	994	917	852	820	810	765
55°	716	662	616	597	590	640
65°	457	426	394	369	361	454
75°	229	211	194	171	159	243
85°	54	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°	1754.7	1754.7	1754.7	1754.7	1754.7
2.5°	1761.2	1751.4	1754.7	1754.7	1746.5
5°	1762.8	1740.0	1740.0	1728.7	1723.8
7.5°	1738.4	1720.5	1717.3	1702.6	1697.8
10°	1720.5	1702.6	1691.3	1671.7	1663.6
12.5°	1699.4	1671.7	1650.6	1618.1	1605.1
15°	1665.2	1636.0	1606.7	1564.4	1548.1
17.5°	1634.3	1600.2	1556.3	1509.1	1491.2
20°	1593.7	1553.0	1496.1	1431.1	1414.8
22.5°	1546.5	1499.4	1432.7	1362.8	1349.8
25°	1501.0	1447.3	1369.3	1302.6	1286.3
27.5°	1453.8	1388.8	1299.3	1227.8	1211.5
30°	1388.8	1322.1	1234.3	1164.4	1153.0
32.5°	1328.6	1261.9	1166.0	1109.1	1096.1
35°	1261.9	1192.0	1097.7	1044.0	1032.6
37.5°	1201.8	1120.5	1037.5	985.5	979.0
40°	1130.2	1057.0	974.1	935.1	925.3
42.5°	1060.3	987.1	909.0	874.9	863.5
45°	993.6	917.2	852.1	819.6	809.9
47.5°	923.7	853.8	792.0	765.9	759.4
50°	850.5	788.7	731.8	707.4	699.3
52.5°	785.5	722.0	674.9	652.1	642.4
55°	715.5	661.9	616.3	596.8	590.3
57.5°	645.6	601.7	557.8	539.9	530.1
60°	583.8	539.9	504.1	483.0	476.5
62.5°	520.4	483.0	448.8	429.3	421.2
65°	457.0	426.1	393.5	369.1	361.0
67.5°	398.4	364.3	338.3	317.1	309.0
70°	336.6	312.2	286.2	266.7	258.6
72.5°	279.7	261.8	239.1	217.9	209.8
75°	229.3	211.4	193.5	170.8	159.4
77.5°	178.9	167.5	149.6	130.1	130.1
80°	131.7	125.2	105.7	102.5	100.8
82.5°	91.1	87.8	76.4	74.8	74.8
85°	53.7	50.4	50.4	50.4	50.4
87.5°	22.8	24.4	26.0	26.0	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)