

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: P295626

Luminaire Tested: **14RLN-LD5-40-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295626
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-L93050-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3789.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

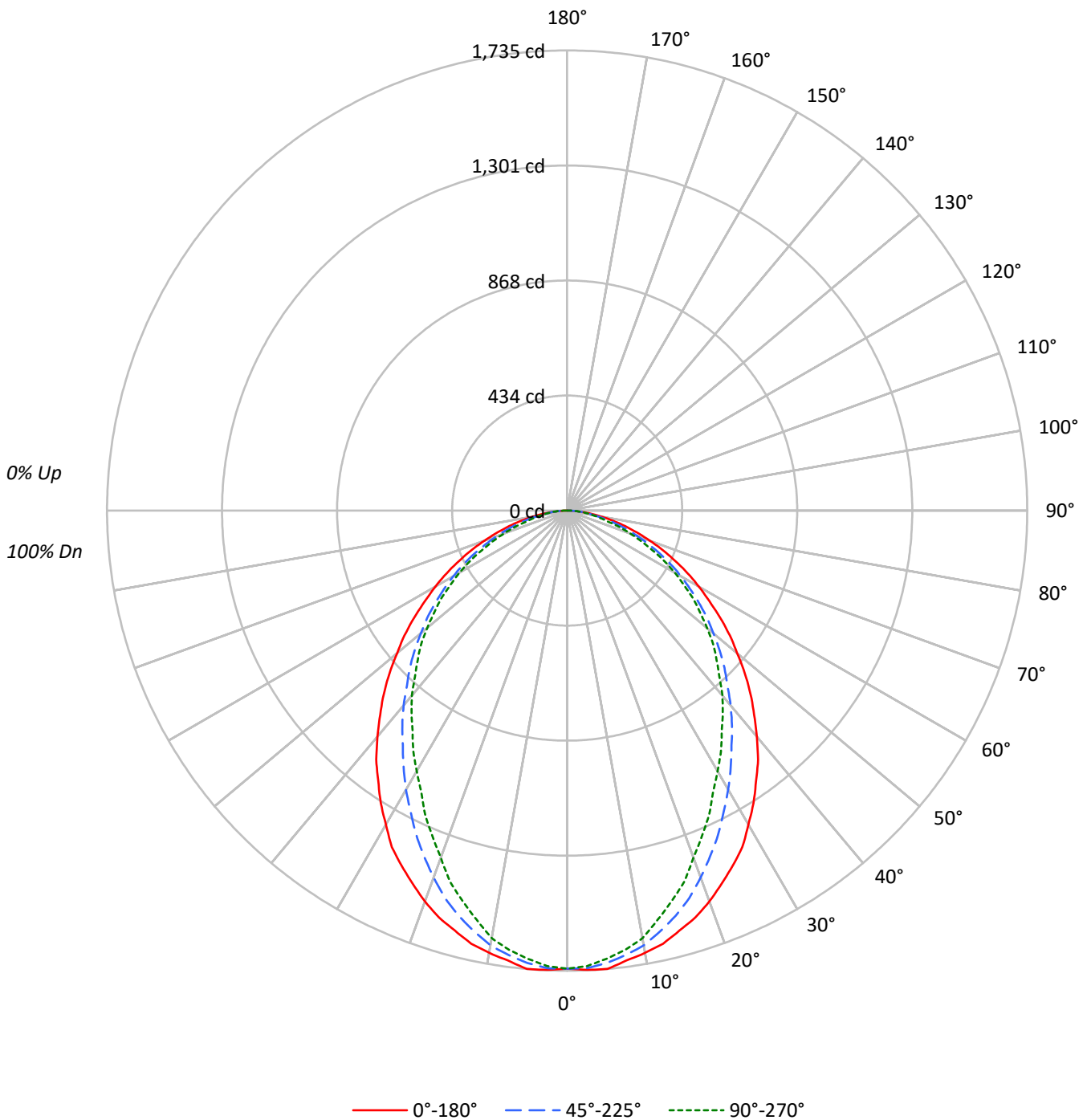
Input Watts (W): 41.106
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4647	4647	4647
5°	4686	4626	4583
10°	4627	4548	4474
15°	4566	4405	4245
20°	4491	4216	3987
25°	4386	4001	3759
30°	4247	3774	3526
35°	4080	3549	3339
40°	3907	3368	3199
45°	3722	3191	3033
50°	3504	3015	2881
55°	3304	2846	2726
60°	3092	2670	2524
65°	2863	2466	2262
70°	2607	2216	2002
75°	2347	1981	1630
80°	2008	1612	1537
85°	1630	1531	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	4.3
10°-20°	443.8	11.7
20°-30°	622.8	16.4
30°-40°	690.8	18.2
40°-50°	663.2	17.5
50°-60°	555.8	14.7
60°-70°	390.1	10.3
70°-80°	203.7	5.4
80°-90°	57.0	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°	1228.3	32.4
0°-40°	1919.1	50.7
0°-60°	3138.1	82.8
0°-90°	3789.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3789.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1727	1727	1727	1727	1727	
5°	1735	1712	1712	1701	1696	164
15°	1639	1610	1581	1540	1524	462
25°	1477	1424	1348	1282	1266	680
35°	1242	1173	1080	1028	1016	778
45°	978	903	839	807	797	753
55°	704	651	607	587	581	630
65°	450	419	387	363	355	447
75°	226	208	190	168	157	239
85°	53	50	50	50	50	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.9	1726.9	1726.9	1726.9	1726.9
2.5°	1733.3	1723.7	1726.9	1726.9	1718.9
5°	1734.9	1712.5	1712.5	1701.3	1696.5
7.5°	1710.9	1693.3	1690.1	1675.7	1670.9
10°	1693.3	1675.7	1664.5	1645.3	1637.2
12.5°	1672.5	1645.3	1624.4	1592.4	1579.6
15°	1638.9	1610.0	1581.2	1539.6	1523.6
17.5°	1608.4	1574.8	1531.6	1485.2	1467.6
20°	1568.4	1528.4	1472.4	1408.4	1392.4
22.5°	1522.0	1475.6	1410.0	1341.2	1328.4
25°	1477.2	1424.4	1347.6	1282.0	1265.9
27.5°	1430.8	1366.8	1278.8	1208.3	1192.3
30°	1366.8	1301.2	1214.7	1145.9	1134.7
32.5°	1307.6	1241.9	1147.5	1091.5	1078.7
35°	1241.9	1173.1	1080.3	1027.5	1016.3
37.5°	1182.7	1102.7	1021.1	969.9	963.5
40°	1112.3	1040.3	958.7	920.3	910.7
42.5°	1043.5	971.5	894.6	861.0	849.8
45°	977.9	902.6	838.6	806.6	797.0
47.5°	909.0	840.2	779.4	753.8	747.4
50°	837.0	776.2	720.2	696.2	688.2
52.5°	773.0	710.6	664.2	641.8	632.2
55°	704.2	651.4	606.6	587.4	581.0
57.5°	635.4	592.2	549.0	531.3	521.7
60°	574.6	531.3	496.1	475.3	468.9
62.5°	512.1	475.3	441.7	422.5	414.5
65°	449.7	419.3	387.3	363.3	355.3
67.5°	392.1	358.5	332.9	312.1	304.1
70°	331.3	307.3	281.7	262.5	254.5
72.5°	275.3	257.7	235.3	214.5	206.5
75°	225.7	208.1	190.5	168.0	156.8
77.5°	176.0	164.8	147.2	128.0	128.0
80°	129.6	123.2	104.0	100.8	99.2
82.5°	89.6	86.4	75.2	73.6	73.6
85°	52.8	49.6	49.6	49.6	49.6
87.5°	22.4	24.0	25.6	25.6	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)