

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: P296355

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296355
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4830.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

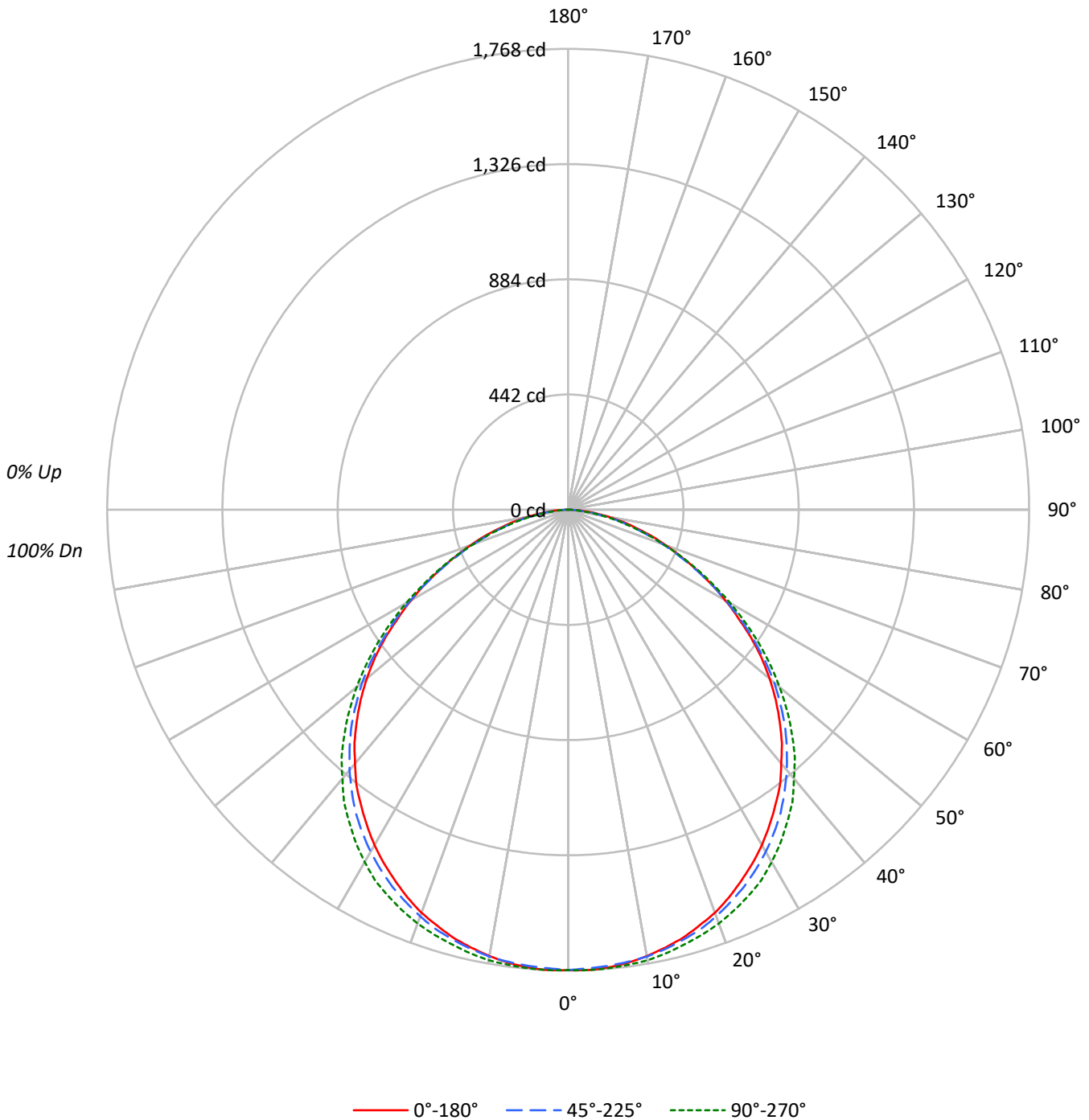
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2377	2377	2377
5°	2381	2373	2386
10°	2376	2378	2398
15°	2369	2379	2404
20°	2356	2377	2419
25°	2331	2369	2426
30°	2309	2354	2425
35°	2275	2332	2405
40°	2233	2291	2365
45°	2183	2238	2308
50°	2110	2159	2217
55°	2007	2033	2093
60°	1874	1883	1933
65°	1721	1709	1750
70°	1564	1521	1528
75°	1391	1315	1305
80°	1206	1079	1051
85°	990	764	594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.5
10°-20°	482.9	10.0
20°-30°	737.1	15.3
30°-40°	888.7	18.4
40°-50°	906.3	18.8
50°-60°	775.6	16.1
60°-70°	534.2	11.1
70°-80°	273.9	5.7
80°-90°	63.7	1.3
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°	1387.6	28.7
0°-40°	2276.3	47.1
0°-60°	3958.1	81.9
0°-90°	4830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1763	1759	1757	1763	1766	168
15°	1700	1699	1708	1720	1726	480
25°	1570	1576	1596	1623	1634	724
35°	1385	1391	1420	1451	1464	867
45°	1147	1149	1176	1206	1213	884
55°	856	850	867	885	892	763
65°	540	528	537	540	550	537
75°	268	256	253	253	251	288
85°	64	57	50	44	38	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.3	1766.3	1766.3	1766.3	1766.3
2.5°	1768.2	1764.5	1760.9	1764.5	1768.2
5°	1762.7	1759.0	1757.2	1762.7	1766.3
7.5°	1753.5	1749.9	1749.9	1757.2	1760.9
10°	1738.9	1737.0	1740.7	1748.0	1755.4
12.5°	1720.5	1720.5	1726.0	1735.2	1742.5
15°	1700.4	1698.6	1707.7	1720.5	1726.0
17.5°	1672.9	1674.7	1687.6	1702.2	1709.5
20°	1645.4	1647.2	1660.1	1680.2	1689.4
22.5°	1610.6	1614.3	1628.9	1654.6	1663.7
25°	1570.3	1575.8	1595.9	1623.4	1634.4
27.5°	1530.0	1535.5	1557.5	1588.6	1603.3
30°	1486.0	1493.3	1515.3	1548.3	1561.1
32.5°	1436.5	1442.0	1469.5	1502.5	1515.3
35°	1385.2	1390.7	1420.0	1451.2	1464.0
37.5°	1333.9	1333.9	1363.2	1399.9	1412.7
40°	1271.6	1273.5	1304.6	1339.4	1346.7
42.5°	1213.0	1213.0	1240.5	1273.5	1286.3
45°	1147.0	1148.9	1176.3	1205.7	1213.0
47.5°	1079.2	1079.2	1103.1	1130.5	1137.9
50°	1007.8	1004.1	1031.6	1053.6	1059.1
52.5°	934.5	929.0	951.0	969.3	976.6
55°	855.7	850.2	866.7	885.0	892.3
57.5°	773.2	765.9	784.2	800.7	804.4
60°	696.3	685.3	699.9	709.1	718.3
62.5°	619.3	606.5	617.5	623.0	630.3
65°	540.5	527.7	536.9	540.5	549.7
67.5°	465.4	456.2	458.1	463.6	467.2
70°	397.6	386.6	386.6	386.6	388.5
72.5°	335.3	318.8	317.0	318.8	318.8
75°	267.5	256.5	252.9	252.9	251.0
77.5°	214.4	199.7	197.9	194.2	190.6
80°	155.7	142.9	139.3	137.4	135.6
82.5°	108.1	97.1	93.4	89.8	84.3
85°	64.1	56.8	49.5	44.0	38.5
87.5°	23.8	22.0	18.3	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)