

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: P296120

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296120
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-LD5-55-RDP-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4831.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

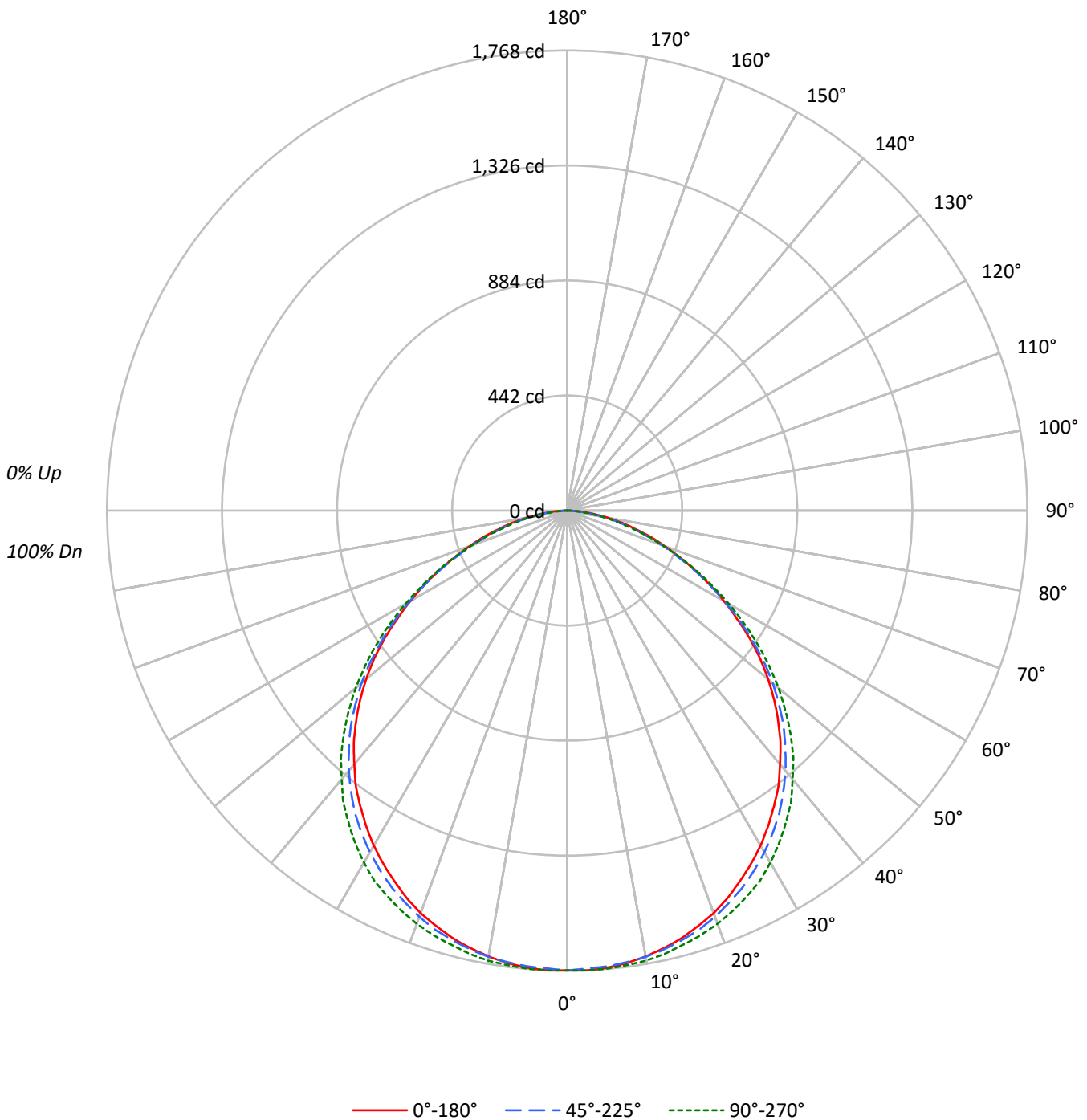
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	2374	2386
10°	2376	2379	2399
15°	2369	2379	2405
20°	2357	2377	2419
25°	2332	2370	2427
30°	2309	2355	2426
35°	2276	2333	2405
40°	2234	2292	2366
45°	2183	2239	2308
50°	2110	2160	2217
55°	2008	2034	2094
60°	1874	1884	1933
65°	1721	1710	1750
70°	1565	1521	1528
75°	1391	1315	1305
80°	1207	1079	1051
85°	990	764	594



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	3.5
10°-20°	483.0	10.0
20°-30°	737.3	15.3
30°-40°	888.9	18.4
40°-50°	906.4	18.8
50°-60°	775.8	16.1
60°-70°	534.4	11.1
70°-80°	273.9	5.7
80°-90°	63.8	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°	1387.9	28.7
0°-40°	2276.7	47.1
0°-60°	3958.9	81.9
0°-90°	4831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1763	1759	1758	1763	1767	168
15°	1701	1699	1708	1721	1726	480
25°	1571	1576	1596	1624	1635	724
35°	1386	1391	1420	1452	1464	867
45°	1147	1149	1177	1206	1213	884
55°	856	850	867	885	892	764
65°	541	528	537	541	550	537
75°	268	257	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°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1768.5	1764.9	1761.2	1764.9	1768.5
5°	1763.0	1759.4	1757.6	1763.0	1766.7
7.5°	1753.9	1750.2	1750.2	1757.6	1761.2
10°	1739.2	1737.4	1741.1	1748.4	1755.7
12.5°	1720.9	1720.9	1726.4	1735.6	1742.9
15°	1700.7	1698.9	1708.1	1720.9	1726.4
17.5°	1673.2	1675.1	1687.9	1702.6	1709.9
20°	1645.8	1647.6	1660.4	1680.6	1689.7
22.5°	1610.9	1614.6	1629.3	1654.9	1664.1
25°	1570.6	1576.1	1596.3	1623.8	1634.8
27.5°	1530.3	1535.8	1557.8	1588.9	1603.6
30°	1486.3	1493.6	1515.6	1548.6	1561.5
32.5°	1436.8	1442.3	1469.8	1502.8	1515.6
35°	1385.5	1391.0	1420.3	1451.5	1464.3
37.5°	1334.2	1334.2	1363.5	1400.2	1413.0
40°	1271.9	1273.7	1304.9	1339.7	1347.0
42.5°	1213.2	1213.2	1240.7	1273.7	1286.5
45°	1147.3	1149.1	1176.6	1205.9	1213.2
47.5°	1079.5	1079.5	1103.3	1130.8	1138.1
50°	1008.0	1004.3	1031.8	1053.8	1059.3
52.5°	934.7	929.2	951.2	969.5	976.8
55°	855.9	850.4	866.9	885.2	892.5
57.5°	773.4	766.1	784.4	800.9	804.6
60°	696.4	685.4	700.1	709.3	718.4
62.5°	619.4	606.6	617.6	623.1	630.4
65°	540.6	527.8	537.0	540.6	549.8
67.5°	465.5	456.3	458.2	463.7	467.3
70°	397.7	386.7	386.7	386.7	388.5
72.5°	335.4	318.9	317.1	318.9	318.9
75°	267.6	256.6	252.9	252.9	251.1
77.5°	214.4	199.8	197.9	194.3	190.6
80°	155.8	142.9	139.3	137.5	135.6
82.5°	108.1	97.1	93.5	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)