

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: P296177

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296177
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-LD5-45-RDP-UNV-L82765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3931.0 lumens
Efficiency: N/A
Efficacy: 121.1 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

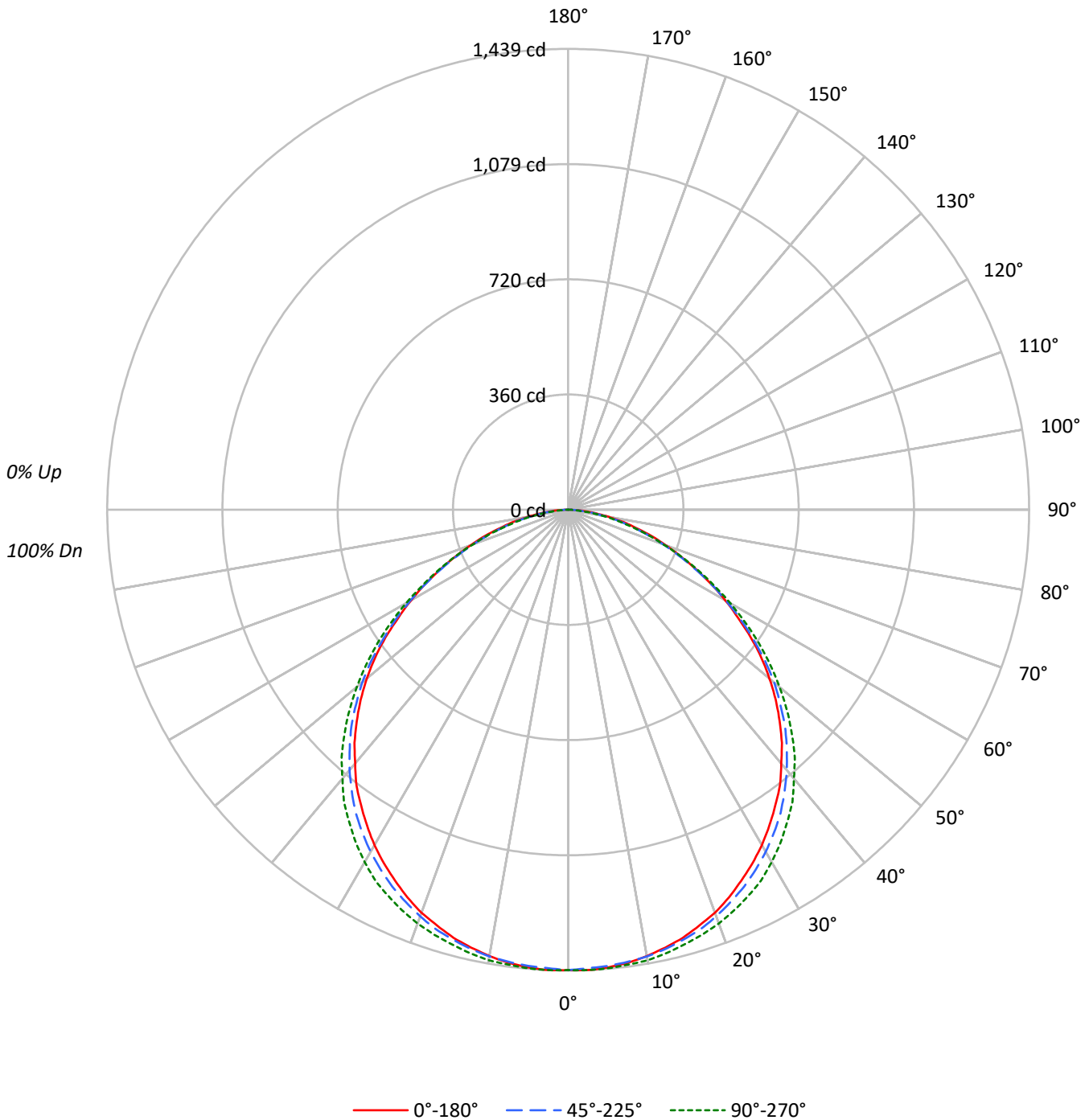
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1934	1934	1934
5°	1938	1932	1942
10°	1934	1936	1952
15°	1928	1936	1957
20°	1918	1935	1969
25°	1897	1928	1975
30°	1879	1916	1974
35°	1852	1898	1957
40°	1818	1865	1925
45°	1776	1822	1878
50°	1717	1757	1804
55°	1634	1655	1704
60°	1525	1533	1573
65°	1401	1391	1424
70°	1273	1238	1244
75°	1132	1070	1062
80°	982	878	855
85°	806	622	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.5
10°-20°	393.0	10.0
20°-30°	599.9	15.3
30°-40°	723.3	18.4
40°-50°	737.6	18.8
50°-60°	631.2	16.1
60°-70°	434.8	11.1
70°-80°	222.9	5.7
80°-90°	51.9	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°	1129.3	28.7
0°-40°	1852.6	47.1
0°-60°	3221.4	81.9
0°-90°	3931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3931.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1435	1432	1430	1435	1438	136
15°	1384	1382	1390	1400	1405	390
25°	1278	1282	1299	1321	1330	589
35°	1127	1132	1156	1181	1192	705
45°	934	935	957	981	987	719
55°	696	692	705	720	726	621
65°	440	430	437	440	447	437
75°	218	209	206	206	204	235
85°	52	46	40	36	31	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.6	1437.6	1437.6	1437.6	1437.6
2.5°	1439.1	1436.1	1433.1	1436.1	1439.1
5°	1434.6	1431.6	1430.1	1434.6	1437.6
7.5°	1427.1	1424.2	1424.2	1430.1	1433.1
10°	1415.2	1413.7	1416.7	1422.7	1428.6
12.5°	1400.3	1400.3	1404.8	1412.2	1418.2
15°	1383.9	1382.4	1389.9	1400.3	1404.8
17.5°	1361.5	1363.0	1373.5	1385.4	1391.4
20°	1339.2	1340.6	1351.1	1367.5	1374.9
22.5°	1310.8	1313.8	1325.7	1346.6	1354.1
25°	1278.0	1282.5	1298.9	1321.3	1330.2
27.5°	1245.2	1249.7	1267.6	1292.9	1304.9
30°	1209.4	1215.4	1233.3	1260.1	1270.6
32.5°	1169.2	1173.6	1196.0	1222.8	1233.3
35°	1127.4	1131.9	1155.7	1181.1	1191.5
37.5°	1085.6	1085.6	1109.5	1139.3	1149.8
40°	1034.9	1036.4	1061.8	1090.1	1096.1
42.5°	987.2	987.2	1009.6	1036.4	1046.9
45°	933.5	935.0	957.4	981.3	987.2
47.5°	878.4	878.4	897.7	920.1	926.1
50°	820.2	817.2	839.6	857.5	862.0
52.5°	760.5	756.1	774.0	788.9	794.8
55°	696.4	691.9	705.4	720.3	726.2
57.5°	629.3	623.3	638.3	651.7	654.7
60°	566.7	557.7	569.7	577.1	584.6
62.5°	504.0	493.6	502.6	507.0	513.0
65°	439.9	429.5	436.9	439.9	447.4
67.5°	378.8	371.3	372.8	377.3	380.3
70°	323.6	314.7	314.7	314.7	316.1
72.5°	272.9	259.5	258.0	259.5	259.5
75°	217.7	208.8	205.8	205.8	204.3
77.5°	174.5	162.5	161.1	158.1	155.1
80°	126.8	116.3	113.3	111.8	110.4
82.5°	88.0	79.0	76.1	73.1	68.6
85°	52.2	46.2	40.3	35.8	31.3
87.5°	19.4	17.9	14.9	13.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)