

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: P295876

Luminaire Tested: **24RLN-LD5-36-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-36-UNV-L82765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3731.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

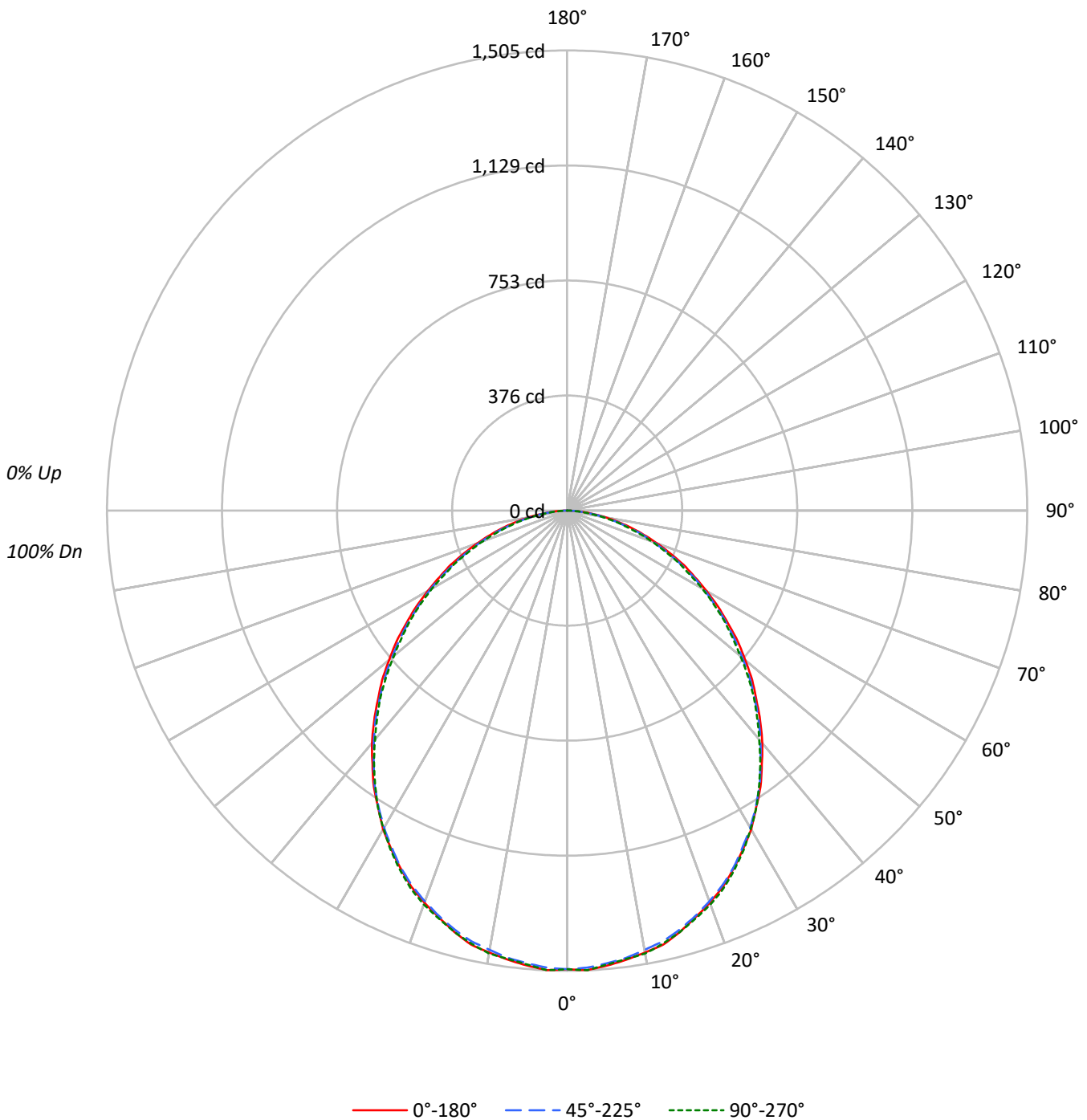
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	72																												
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61																												
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52																												
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46																												
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40																												
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36																												
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32																												
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29																												
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2018	2018	2018
5°	2017	2008	2013
10°	2005	1993	2010
15°	1987	1977	1987
20°	1954	1947	1963
25°	1916	1912	1923
30°	1870	1861	1866
35°	1811	1803	1799
40°	1744	1727	1717
45°	1665	1649	1642
50°	1590	1565	1547
55°	1505	1482	1468
60°	1415	1390	1373
65°	1337	1287	1276
70°	1226	1179	1155
75°	1127	1057	1014
80°	989	924	867
85°	800	743	631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.8
10°-20°	401.2	10.8
20°-30°	593.4	15.9
30°-40°	684.9	18.4
40°-50°	668.9	17.9
50°-60°	564.8	15.1
60°-70°	402.3	10.8
70°-80°	217.8	5.8
80°-90°	56.2	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°	1136.1	30.4
0°-40°	1820.9	48.8
0°-60°	3054.6	81.9
0°-90°	3731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1494	1494	1486	1490	1490	142
15°	1426	1420	1419	1425	1426	402
25°	1290	1283	1288	1293	1295	594
35°	1102	1094	1098	1094	1095	688
45°	875	868	867	863	863	677
55°	642	633	632	626	626	575
65°	420	412	404	400	401	414
75°	217	209	203	199	195	229
85°	52	51	48	42	41	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.8	1499.8	1499.8	1499.8	1499.8
2.5°	1504.6	1498.6	1496.1	1497.3	1504.6
5°	1493.7	1493.7	1486.5	1490.1	1490.1
7.5°	1481.7	1482.9	1475.7	1481.7	1479.3
10°	1467.3	1463.6	1458.8	1468.5	1470.9
12.5°	1454.0	1445.6	1443.2	1449.2	1450.4
15°	1426.3	1420.3	1419.1	1425.1	1426.3
17.5°	1395.0	1396.2	1391.4	1399.9	1398.6
20°	1364.9	1362.5	1360.1	1369.8	1371.0
22.5°	1331.2	1324.0	1326.4	1334.9	1337.3
25°	1290.3	1283.1	1287.9	1292.7	1295.1
27.5°	1247.0	1243.4	1242.2	1248.2	1250.6
30°	1203.7	1197.6	1197.6	1204.9	1201.2
32.5°	1150.7	1145.9	1148.3	1150.7	1151.9
35°	1102.5	1094.1	1097.7	1094.1	1095.3
37.5°	1046.0	1040.0	1038.8	1037.6	1037.6
40°	993.0	988.2	983.4	983.4	977.4
42.5°	935.2	929.2	926.8	923.2	919.6
45°	875.1	867.8	866.6	863.0	863.0
47.5°	820.9	810.1	808.9	801.6	801.6
50°	759.5	752.3	747.5	742.7	739.0
52.5°	704.1	696.9	689.7	684.9	681.3
55°	641.5	633.1	631.9	625.9	625.9
57.5°	585.0	577.8	572.9	565.7	566.9
60°	526.0	518.8	516.4	510.4	510.4
62.5°	470.6	464.6	461.0	455.0	450.2
65°	420.1	411.7	404.4	399.6	400.8
67.5°	364.7	355.1	351.5	346.7	343.0
70°	311.7	305.7	299.7	293.7	293.7
72.5°	262.4	256.4	252.8	245.5	243.1
75°	216.7	209.4	203.4	198.6	195.0
77.5°	170.9	163.7	160.1	154.1	154.1
80°	127.6	122.8	119.2	116.8	111.9
82.5°	87.9	85.5	81.8	78.2	74.6
85°	51.8	50.6	48.1	42.1	40.9
87.5°	20.5	20.5	18.1	16.9	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)