

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: P295886

Luminaire Tested: **24RLN-LD5-42-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295886
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-LD5-42-UNV-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4339.0 lumens
Efficiency: N/A
Efficacy: 145.8 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

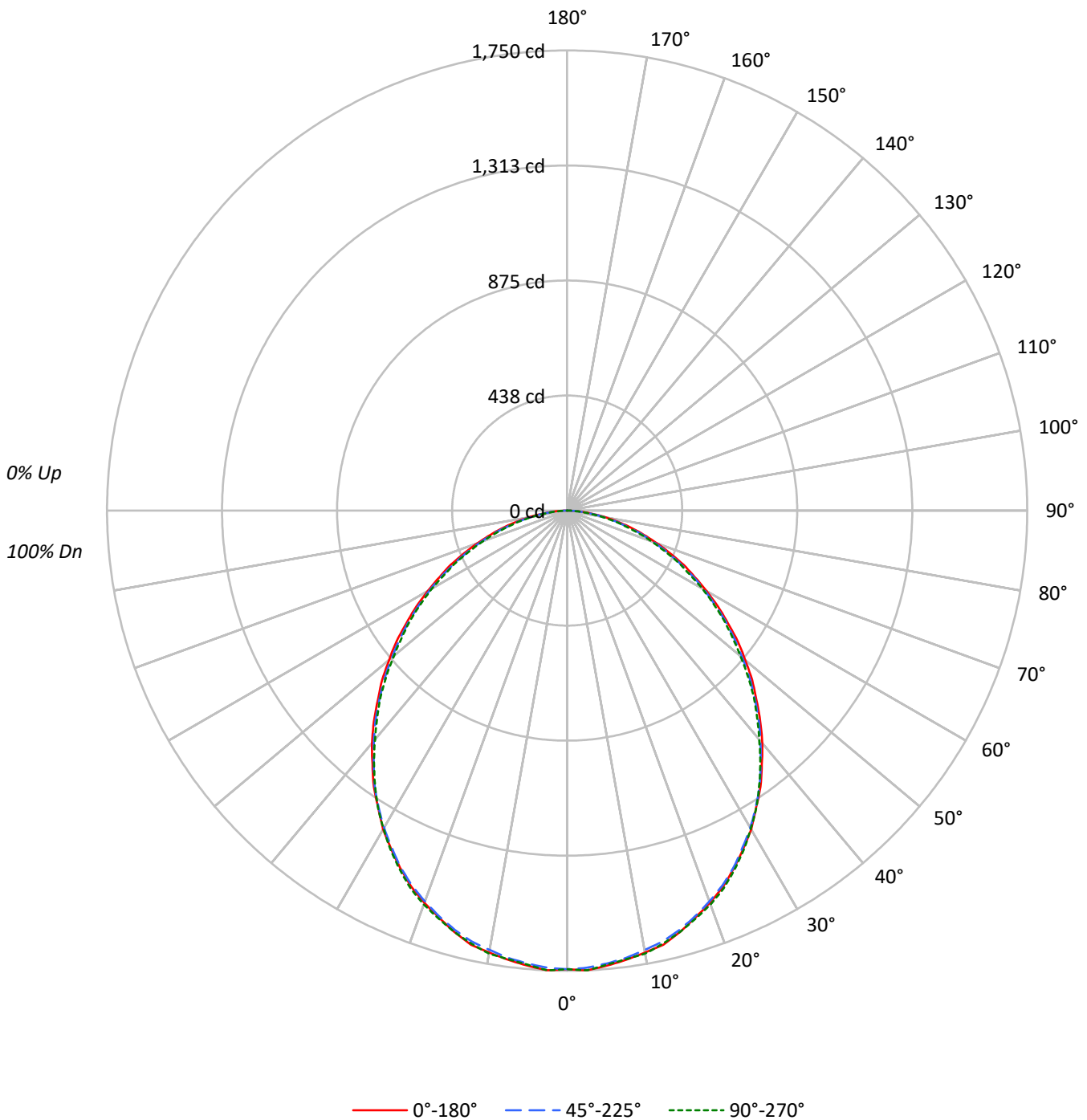
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2347	2347	2347
5°	2346	2335	2341
10°	2331	2318	2337
15°	2311	2299	2311
20°	2273	2265	2283
25°	2228	2224	2236
30°	2175	2164	2170
35°	2106	2097	2092
40°	2028	2009	1996
45°	1936	1918	1910
50°	1849	1820	1799
55°	1750	1724	1707
60°	1646	1616	1597
65°	1555	1497	1484
70°	1426	1371	1344
75°	1310	1230	1179
80°	1150	1074	1009
85°	929	865	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	3.8
10°-20°	466.5	10.8
20°-30°	690.1	15.9
30°-40°	796.4	18.4
40°-50°	777.9	17.9
50°-60°	656.9	15.1
60°-70°	467.9	10.8
70°-80°	253.4	5.8
80°-90°	65.4	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°	1321.2	30.4
0°-40°	2117.7	48.8
0°-60°	3552.4	81.9
0°-90°	4339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1737	1737	1729	1733	1733	165
15°	1659	1652	1650	1657	1659	467
25°	1501	1492	1498	1503	1506	691
35°	1282	1272	1277	1272	1274	800
45°	1018	1009	1008	1004	1004	787
55°	746	736	735	728	728	669
65°	488	479	470	465	466	482
75°	252	244	237	231	227	267
85°	60	59	56	49	48	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1744.2	1744.2	1744.2	1744.2	1744.2
2.5°	1749.8	1742.8	1740.0	1741.4	1749.8
5°	1737.2	1737.2	1728.8	1733.0	1733.0
7.5°	1723.2	1724.6	1716.2	1723.2	1720.4
10°	1706.4	1702.2	1696.6	1707.8	1710.6
12.5°	1691.0	1681.2	1678.4	1685.4	1686.8
15°	1658.8	1651.8	1650.4	1657.4	1658.8
17.5°	1622.4	1623.8	1618.2	1628.0	1626.6
20°	1587.4	1584.6	1581.8	1593.0	1594.4
22.5°	1548.2	1539.8	1542.6	1552.4	1555.2
25°	1500.6	1492.2	1497.8	1503.4	1506.2
27.5°	1450.2	1446.0	1444.6	1451.6	1454.4
30°	1399.8	1392.8	1392.8	1401.2	1397.0
32.5°	1338.2	1332.6	1335.4	1338.2	1339.6
35°	1282.2	1272.4	1276.6	1272.4	1273.8
37.5°	1216.4	1209.4	1208.0	1206.6	1206.6
40°	1154.8	1149.2	1143.6	1143.6	1136.6
42.5°	1087.6	1080.6	1077.8	1073.6	1069.4
45°	1017.7	1009.3	1007.9	1003.7	1003.7
47.5°	954.7	942.1	940.7	932.3	932.3
50°	883.3	874.9	869.3	863.7	859.5
52.5°	818.9	810.5	802.1	796.5	792.3
55°	746.1	736.3	734.9	727.9	727.9
57.5°	680.3	671.9	666.3	657.9	659.3
60°	611.7	603.3	600.5	593.5	593.5
62.5°	547.3	540.3	536.1	529.1	523.5
65°	488.5	478.7	470.3	464.7	466.1
67.5°	424.1	412.9	408.7	403.1	398.9
70°	362.5	355.5	348.6	341.6	341.6
72.5°	305.2	298.2	294.0	285.6	282.8
75°	252.0	243.6	236.6	231.0	226.8
77.5°	198.8	190.4	186.2	179.2	179.2
80°	148.4	142.8	138.6	135.8	130.2
82.5°	102.2	99.4	95.2	91.0	86.8
85°	60.2	58.8	56.0	49.0	47.6
87.5°	23.8	23.8	21.0	19.6	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)