

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: P295978

Luminaire Tested: **24RLN-LD5-55-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295978
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-LD5-55-UNV-L93050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4317.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

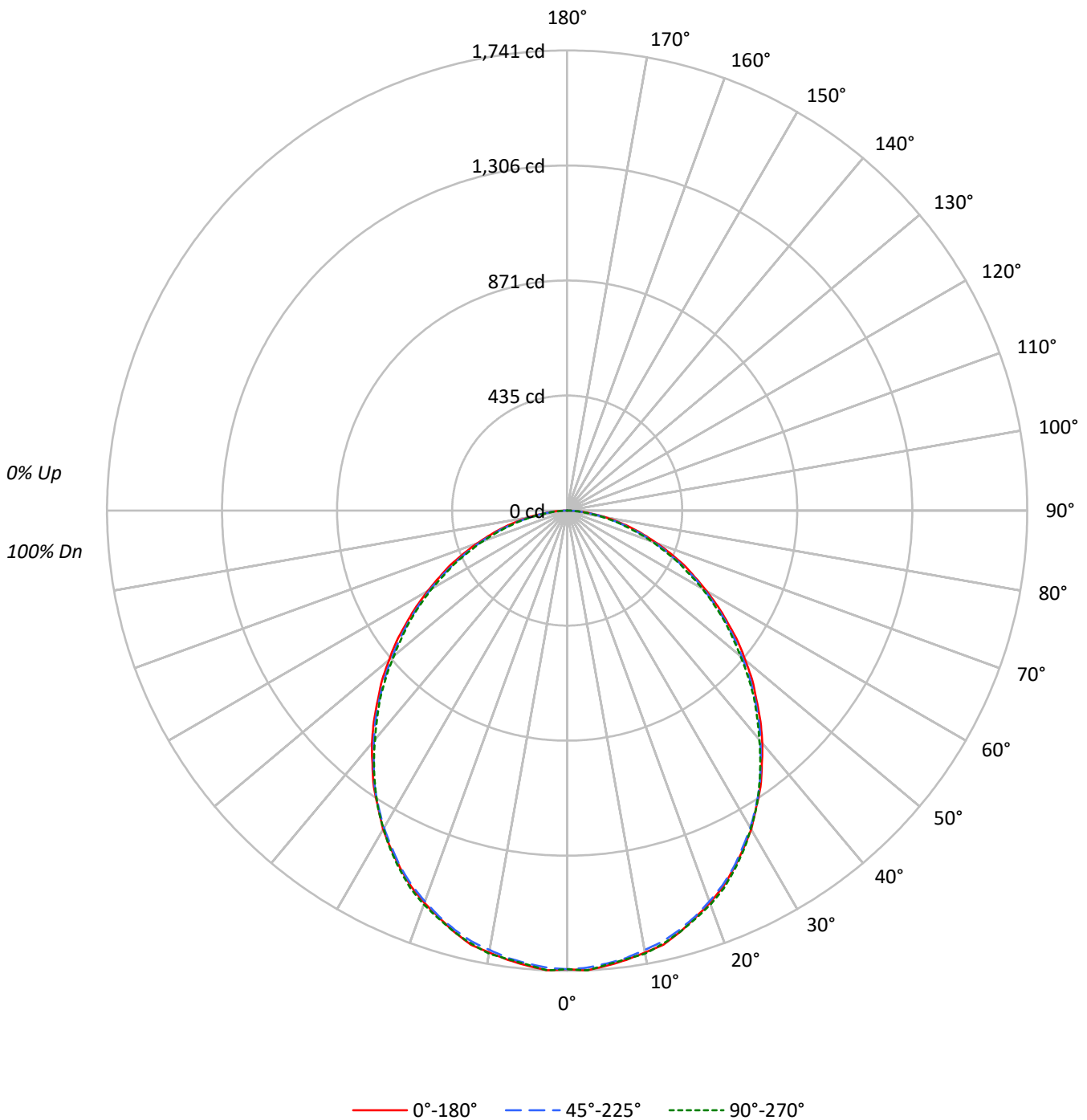
Input Watts (W): 39.153
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2335	2335	2335
5°	2334	2323	2329
10°	2319	2306	2325
15°	2299	2287	2299
20°	2261	2253	2271
25°	2216	2212	2225
30°	2164	2153	2159
35°	2095	2086	2082
40°	2018	1998	1986
45°	1927	1908	1900
50°	1840	1810	1790
55°	1741	1715	1699
60°	1638	1608	1589
65°	1548	1490	1477
70°	1419	1364	1337
75°	1303	1224	1173
80°	1144	1068	1003
85°	925	860	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.7	3.8
10°-20°	464.2	10.8
20°-30°	686.6	15.9
30°-40°	792.4	18.4
40°-50°	773.9	17.9
50°-60°	653.5	15.1
60°-70°	465.5	10.8
70°-80°	252.0	5.8
80°-90°	65.0	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°	1314.5	30.4
0°-40°	2106.9	48.8
0°-60°	3534.4	81.9
0°-90°	4317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1728	1728	1720	1724	1724	164
15°	1650	1643	1642	1649	1650	465
25°	1493	1485	1490	1496	1499	687
35°	1276	1266	1270	1266	1267	796
45°	1012	1004	1003	999	999	783
55°	742	733	731	724	724	666
65°	486	476	468	462	464	479
75°	251	242	235	230	226	265
85°	60	58	56	49	47	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1735.3	1735.3	1735.3	1735.3	1735.3
2.5°	1740.9	1733.9	1731.1	1732.5	1740.9
5°	1728.3	1728.3	1720.0	1724.2	1724.2
7.5°	1714.4	1715.8	1707.5	1714.4	1711.6
10°	1697.7	1693.5	1688.0	1699.1	1701.9
12.5°	1682.4	1672.6	1669.9	1676.8	1678.2
15°	1650.4	1643.4	1642.0	1649.0	1650.4
17.5°	1614.1	1615.5	1610.0	1619.7	1618.3
20°	1579.3	1576.5	1573.8	1584.9	1586.3
22.5°	1540.3	1532.0	1534.8	1544.5	1547.3
25°	1493.0	1484.6	1490.2	1495.8	1498.6
27.5°	1442.8	1438.7	1437.3	1444.2	1447.0
30°	1392.7	1385.7	1385.7	1394.1	1389.9
32.5°	1331.4	1325.9	1328.6	1331.4	1332.8
35°	1275.7	1266.0	1270.1	1266.0	1267.4
37.5°	1210.3	1203.3	1201.9	1200.5	1200.5
40°	1149.0	1143.4	1137.8	1137.8	1130.9
42.5°	1082.1	1075.2	1072.4	1068.2	1064.0
45°	1012.5	1004.1	1002.7	998.6	998.6
47.5°	949.8	937.3	935.9	927.5	927.5
50°	878.8	870.4	864.9	859.3	855.1
52.5°	814.7	806.4	798.0	792.4	788.3
55°	742.3	732.6	731.2	724.2	724.2
57.5°	676.9	668.5	662.9	654.6	656.0
60°	608.6	600.3	597.5	590.5	590.5
62.5°	544.5	537.6	533.4	526.4	520.9
65°	486.1	476.3	467.9	462.4	463.8
67.5°	422.0	410.8	406.7	401.1	396.9
70°	360.7	353.7	346.8	339.8	339.8
72.5°	303.6	296.6	292.5	284.1	281.3
75°	250.7	242.3	235.4	229.8	225.6
77.5°	197.8	189.4	185.2	178.3	178.3
80°	147.6	142.1	137.9	135.1	129.5
82.5°	101.7	98.9	94.7	90.5	86.3
85°	59.9	58.5	55.7	48.7	47.4
87.5°	23.7	23.7	20.9	19.5	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)