

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: P295819

Luminaire Tested: **24RLN-LD5-36-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295819
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-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3673.0 lumens
Efficiency: N/A
Efficacy: 145.7 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

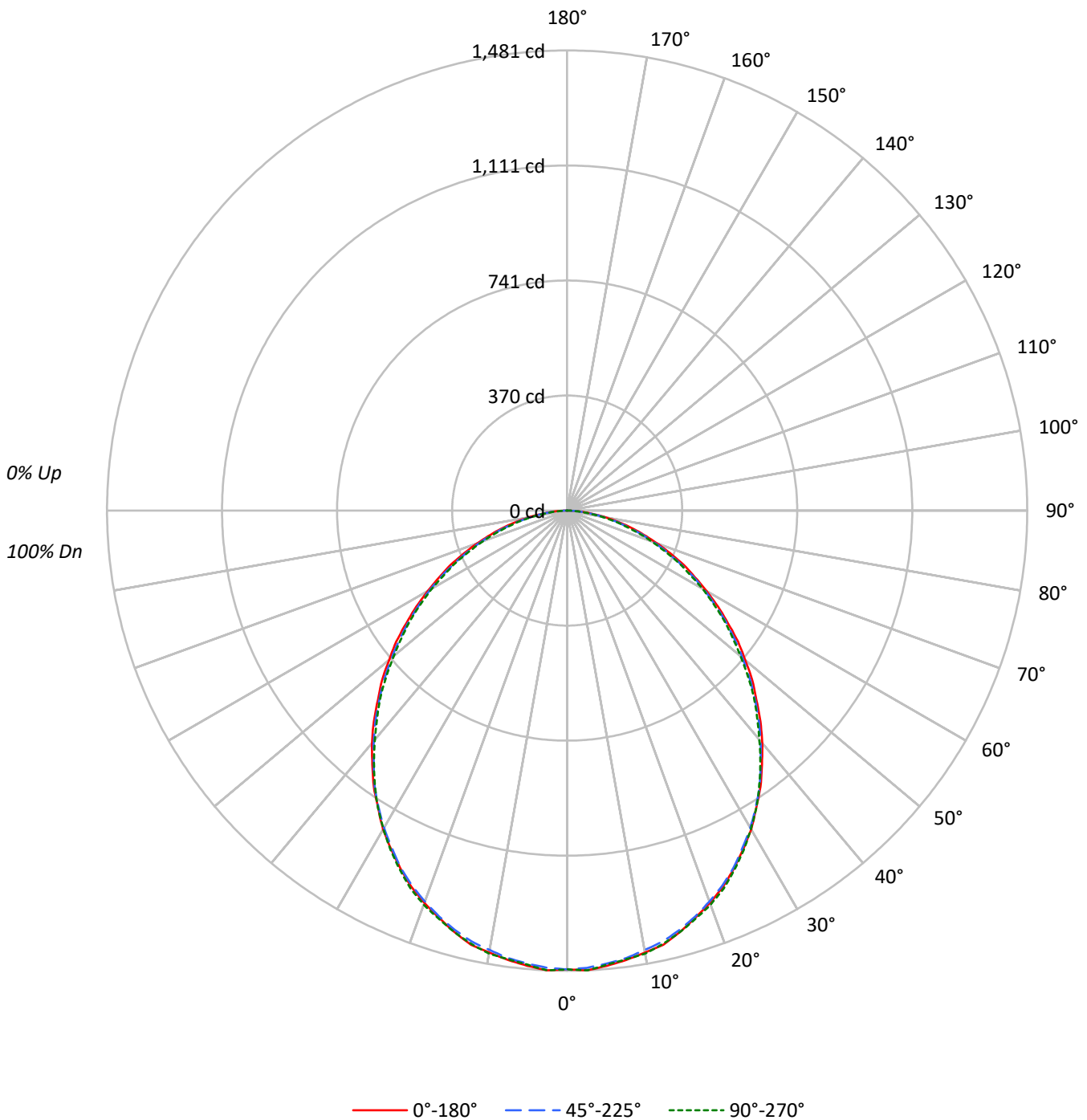
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1986	1986	1986
5°	1986	1977	1981
10°	1973	1962	1978
15°	1956	1946	1956
20°	1924	1917	1933
25°	1886	1882	1893
30°	1841	1832	1837
35°	1783	1775	1771
40°	1717	1700	1690
45°	1639	1623	1617
50°	1565	1540	1523
55°	1482	1459	1445
60°	1393	1368	1352
65°	1316	1267	1256
70°	1207	1161	1137
75°	1109	1041	998
80°	973	909	854
85°	787	732	622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	3.8
10°-20°	394.9	10.8
20°-30°	584.2	15.9
30°-40°	674.2	18.4
40°-50°	658.5	17.9
50°-60°	556.1	15.1
60°-70°	396.1	10.8
70°-80°	214.5	5.8
80°-90°	55.3	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°	1118.4	30.4
0°-40°	1792.6	48.8
0°-60°	3007.2	81.9
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1470	1470	1463	1467	1467	140
15°	1404	1398	1397	1403	1404	396
25°	1270	1263	1268	1273	1275	585
35°	1085	1077	1081	1077	1078	677
45°	862	854	853	850	850	666
55°	632	623	622	616	616	566
65°	414	405	398	393	395	408
75°	213	206	200	196	192	226
85°	51	50	47	42	40	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.4	1476.4	1476.4	1476.4	1476.4
2.5°	1481.2	1475.3	1472.9	1474.1	1481.2
5°	1470.5	1470.5	1463.4	1467.0	1467.0
7.5°	1458.7	1459.9	1452.7	1458.7	1456.3
10°	1444.4	1440.9	1436.2	1445.6	1448.0
12.5°	1431.4	1423.1	1420.7	1426.7	1427.9
15°	1404.2	1398.2	1397.1	1403.0	1404.2
17.5°	1373.4	1374.5	1369.8	1378.1	1376.9
20°	1343.7	1341.4	1339.0	1348.5	1349.7
22.5°	1310.5	1303.4	1305.8	1314.1	1316.5
25°	1270.3	1263.2	1267.9	1272.6	1275.0
27.5°	1227.6	1224.0	1222.9	1228.8	1231.2
30°	1184.9	1179.0	1179.0	1186.1	1182.6
32.5°	1132.8	1128.1	1130.4	1132.8	1134.0
35°	1085.4	1077.1	1080.7	1077.1	1078.3
37.5°	1029.7	1023.8	1022.6	1021.4	1021.4
40°	977.6	972.8	968.1	968.1	962.2
42.5°	920.7	914.8	912.4	908.9	905.3
45°	861.5	854.3	853.2	849.6	849.6
47.5°	808.1	797.5	796.3	789.2	789.2
50°	747.7	740.6	735.9	731.1	727.6
52.5°	693.2	686.1	679.0	674.2	670.7
55°	631.6	623.3	622.1	616.2	616.2
57.5°	575.9	568.8	564.0	556.9	558.1
60°	517.8	510.7	508.3	502.4	502.4
62.5°	463.3	457.4	453.8	447.9	443.2
65°	413.5	405.3	398.1	393.4	394.6
67.5°	359.0	349.6	346.0	341.3	337.7
70°	306.9	301.0	295.1	289.1	289.1
72.5°	258.3	252.4	248.8	241.7	239.4
75°	213.3	206.2	200.3	195.5	192.0
77.5°	168.3	161.2	157.6	151.7	151.7
80°	125.6	120.9	117.3	114.9	110.2
82.5°	86.5	84.1	80.6	77.0	73.5
85°	51.0	49.8	47.4	41.5	40.3
87.5°	20.1	20.1	17.8	16.6	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)