

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: P295961

Luminaire Tested: **24RLN-LD5-36-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295961
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-L93050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3431.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

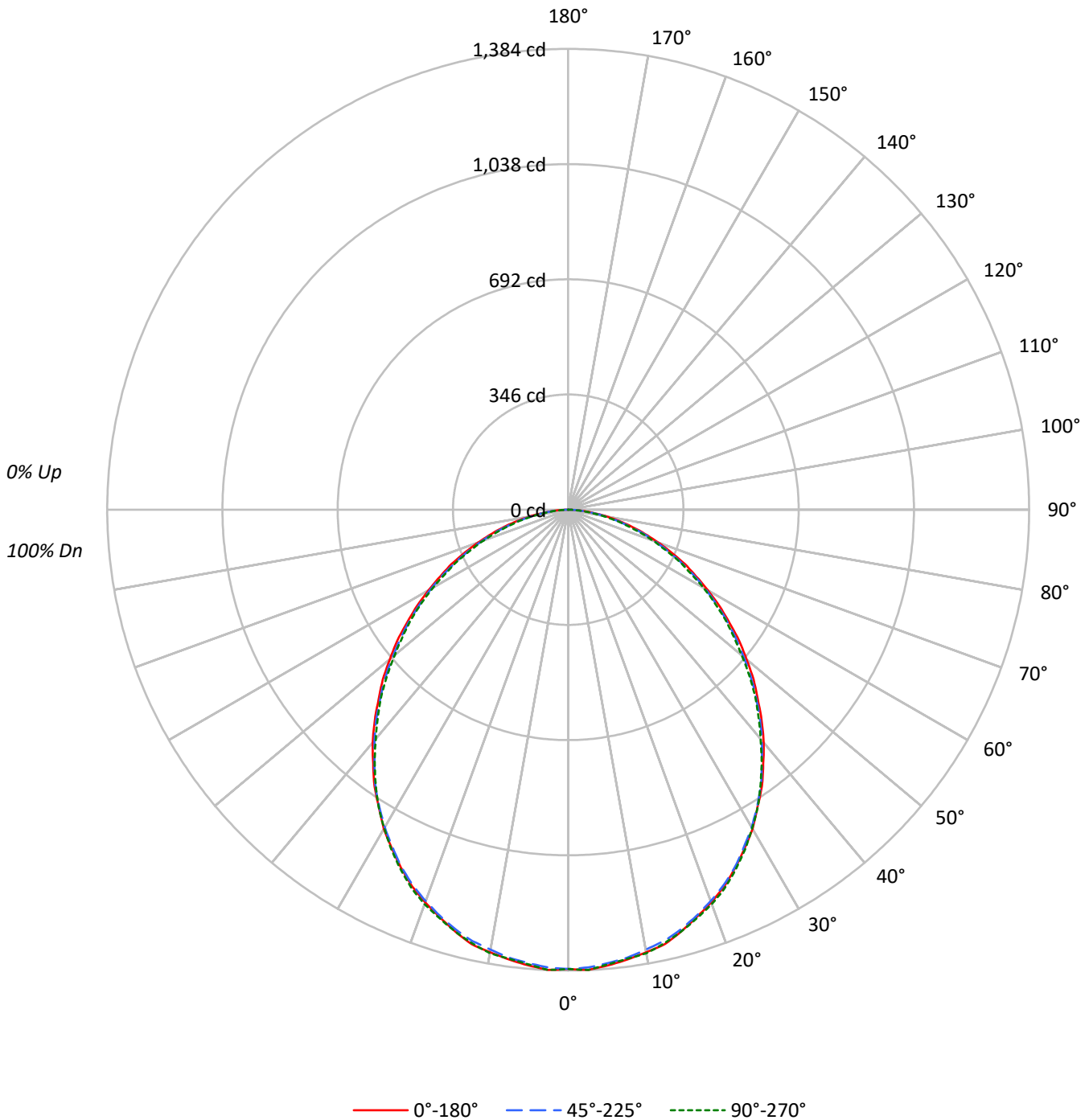
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1856	1856	1856
5°	1855	1846	1851
10°	1843	1833	1848
15°	1827	1818	1827
20°	1797	1791	1805
25°	1762	1758	1768
30°	1720	1711	1716
35°	1665	1658	1655
40°	1604	1588	1579
45°	1531	1516	1510
50°	1462	1439	1423
55°	1384	1363	1350
60°	1302	1278	1263
65°	1230	1184	1174
70°	1128	1084	1063
75°	1036	973	932
80°	909	849	797
85°	735	684	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.8
10°-20°	368.9	10.8
20°-30°	545.7	15.9
30°-40°	629.8	18.4
40°-50°	615.1	17.9
50°-60°	519.4	15.1
60°-70°	370.0	10.8
70°-80°	200.3	5.8
80°-90°	51.7	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°	1044.7	30.4
0°-40°	1674.5	48.8
0°-60°	2809.0	81.9
0°-90°	3431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1374	1374	1367	1370	1370	130
15°	1312	1306	1305	1310	1312	369
25°	1187	1180	1184	1189	1191	546
35°	1014	1006	1010	1006	1007	633
45°	805	798	797	794	794	622
55°	590	582	581	576	576	529
65°	386	379	372	368	369	381
75°	199	193	187	183	179	211
85°	48	46	44	39	38	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.2	1379.2	1379.2	1379.2	1379.2
2.5°	1383.6	1378.1	1375.8	1377.0	1383.6
5°	1373.6	1373.6	1367.0	1370.3	1370.3
7.5°	1362.6	1363.7	1357.0	1362.6	1360.3
10°	1349.3	1346.0	1341.5	1350.4	1352.6
12.5°	1337.1	1329.4	1327.1	1332.7	1333.8
15°	1311.6	1306.1	1305.0	1310.5	1311.6
17.5°	1282.9	1284.0	1279.5	1287.3	1286.2
20°	1255.2	1253.0	1250.8	1259.6	1260.7
22.5°	1224.2	1217.6	1219.8	1227.5	1229.7
25°	1186.6	1179.9	1184.4	1188.8	1191.0
27.5°	1146.7	1143.4	1142.3	1147.8	1150.0
30°	1106.9	1101.3	1101.3	1108.0	1104.7
32.5°	1058.2	1053.7	1056.0	1058.2	1059.3
35°	1013.9	1006.1	1009.5	1006.1	1007.3
37.5°	961.9	956.3	955.2	954.1	954.1
40°	913.2	908.7	904.3	904.3	898.8
42.5°	860.0	854.5	852.3	849.0	845.7
45°	804.7	798.1	796.9	793.6	793.6
47.5°	754.9	744.9	743.8	737.2	737.2
50°	698.4	691.8	687.4	682.9	679.6
52.5°	647.5	640.9	634.2	629.8	626.5
55°	590.0	582.2	581.1	575.6	575.6
57.5°	537.9	531.3	526.9	520.2	521.3
60°	483.7	477.1	474.8	469.3	469.3
62.5°	432.8	427.3	423.9	418.4	414.0
65°	386.3	378.6	371.9	367.5	368.6
67.5°	335.4	326.5	323.2	318.8	315.5
70°	286.7	281.1	275.6	270.1	270.1
72.5°	241.3	235.8	232.4	225.8	223.6
75°	199.2	192.6	187.1	182.6	179.3
77.5°	157.2	150.5	147.2	141.7	141.7
80°	117.3	112.9	109.6	107.4	102.9
82.5°	80.8	78.6	75.3	71.9	68.6
85°	47.6	46.5	44.3	38.7	37.6
87.5°	18.8	18.8	16.6	15.5	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)