

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: P295963

Luminaire Tested: **24RLN-LD5-42-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295963
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-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: 3278.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

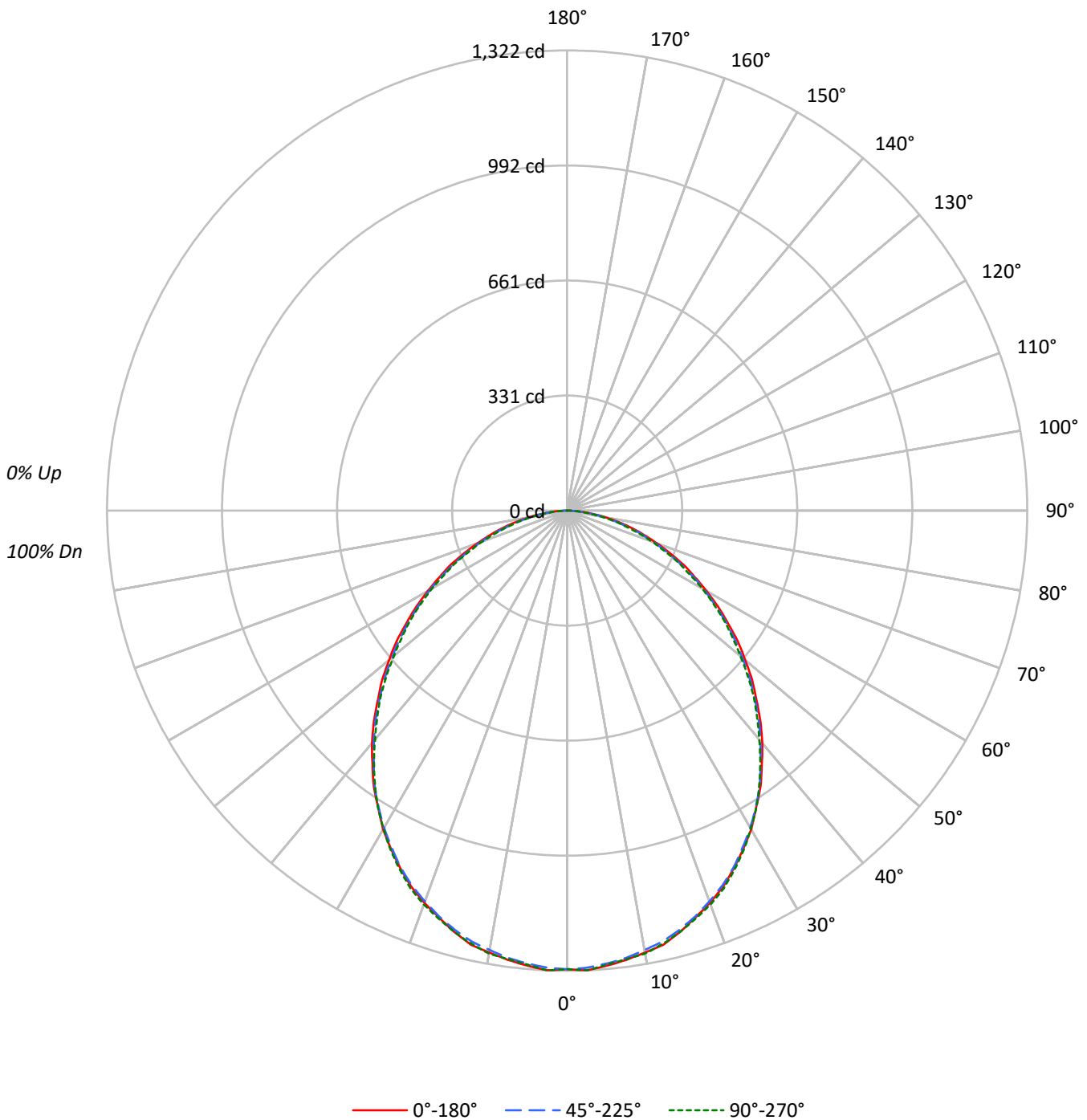
Input Watts (W): 29.76
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1773	1773	1773
5°	1773	1764	1768
10°	1761	1751	1766
15°	1746	1737	1746
20°	1717	1711	1725
25°	1683	1680	1689
30°	1643	1635	1640
35°	1591	1584	1581
40°	1532	1518	1508
45°	1463	1449	1443
50°	1397	1375	1359
55°	1322	1302	1290
60°	1244	1221	1207
65°	1175	1131	1121
70°	1078	1036	1015
75°	990	929	891
80°	869	811	762
85°	702	653	556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	3.8
10°-20°	352.5	10.8
20°-30°	521.4	15.9
30°-40°	601.7	18.4
40°-50°	587.7	17.9
50°-60°	496.3	15.1
60°-70°	353.5	10.8
70°-80°	191.4	5.8
80°-90°	49.4	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°	998.1	30.4
0°-40°	1599.8	48.8
0°-60°	2683.8	81.9
0°-90°	3278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1318	1318	1318	1318	1318	
5°	1312	1312	1306	1309	1309	125
15°	1253	1248	1247	1252	1253	353
25°	1134	1127	1132	1136	1138	522
35°	969	961	964	961	962	605
45°	769	762	761	758	758	594
55°	564	556	555	550	550	505
65°	369	362	355	351	352	364
75°	190	184	179	174	171	201
85°	46	44	42	37	36	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1317.7	1317.7	1317.7	1317.7	1317.7
2.5°	1321.9	1316.6	1314.5	1315.5	1321.9
5°	1312.4	1312.4	1306.0	1309.2	1309.2
7.5°	1301.8	1302.9	1296.5	1301.8	1299.7
10°	1289.1	1285.9	1281.7	1290.2	1292.3
12.5°	1277.5	1270.1	1268.0	1273.2	1274.3
15°	1253.2	1247.9	1246.8	1252.1	1253.2
17.5°	1225.7	1226.7	1222.5	1229.9	1228.8
20°	1199.2	1197.1	1195.0	1203.5	1204.5
22.5°	1169.6	1163.3	1165.4	1172.8	1174.9
25°	1133.7	1127.3	1131.5	1135.8	1137.9
27.5°	1095.6	1092.4	1091.4	1096.6	1098.8
30°	1057.5	1052.2	1052.2	1058.6	1055.4
32.5°	1011.0	1006.8	1008.9	1011.0	1012.0
35°	968.7	961.3	964.5	961.3	962.3
37.5°	919.0	913.7	912.6	911.6	911.6
40°	872.4	868.2	864.0	864.0	858.7
42.5°	821.7	816.4	814.3	811.1	807.9
45°	768.8	762.5	761.4	758.2	758.2
47.5°	721.2	711.7	710.6	704.3	704.3
50°	667.3	660.9	656.7	652.5	649.3
52.5°	618.6	612.3	606.0	601.7	598.6
55°	563.7	556.3	555.2	549.9	549.9
57.5°	514.0	507.6	503.4	497.0	498.1
60°	462.1	455.8	453.7	448.4	448.4
62.5°	413.5	408.2	405.0	399.7	395.5
65°	369.1	361.7	355.3	351.1	352.2
67.5°	320.4	312.0	308.8	304.6	301.4
70°	273.9	268.6	263.3	258.0	258.0
72.5°	230.5	225.3	222.1	215.7	213.6
75°	190.4	184.0	178.7	174.5	171.3
77.5°	150.2	143.8	140.6	135.4	135.4
80°	112.1	107.9	104.7	102.6	98.3
82.5°	77.2	75.1	71.9	68.7	65.6
85°	45.5	44.4	42.3	37.0	36.0
87.5°	18.0	18.0	15.9	14.8	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)