

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: P295965

Luminaire Tested: **24RLN-LD5-42-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295965
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-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3868.0 lumens
Efficiency: N/A
Efficacy: 129.6 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

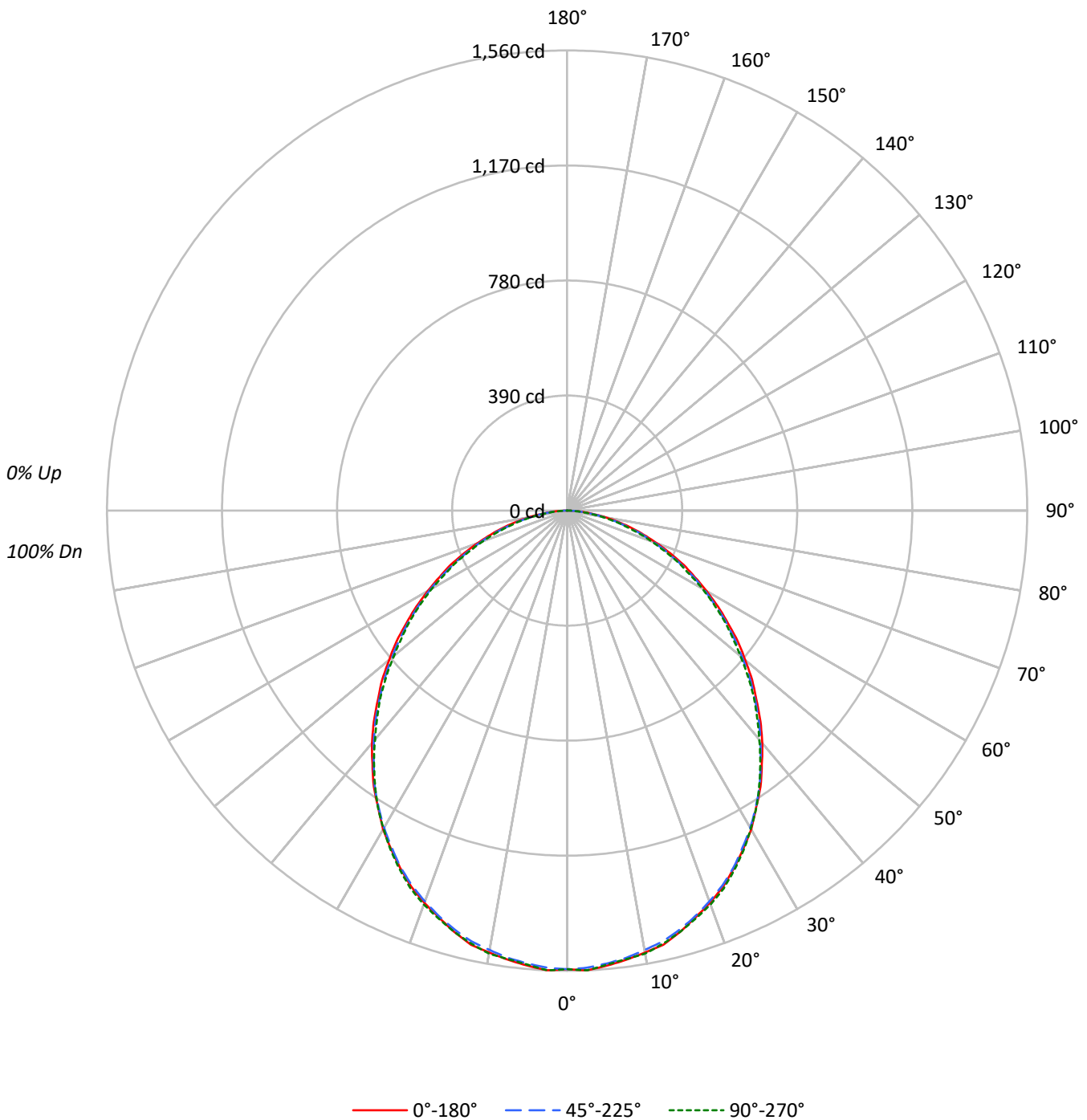
Input Watts (W): 29.853
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2092	2092	2092
5°	2092	2081	2086
10°	2078	2066	2083
15°	2060	2049	2060
20°	2026	2019	2035
25°	1986	1982	1993
30°	1939	1929	1935
35°	1877	1869	1865
40°	1808	1791	1780
45°	1726	1710	1702
50°	1648	1622	1604
55°	1560	1537	1522
60°	1467	1440	1424
65°	1387	1335	1323
70°	1271	1222	1198
75°	1168	1096	1051
80°	1025	957	900
85°	829	770	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	3.8
10°-20°	415.9	10.8
20°-30°	615.2	15.9
30°-40°	710.0	18.4
40°-50°	693.4	17.9
50°-60°	585.6	15.1
60°-70°	417.1	10.8
70°-80°	225.8	5.8
80°-90°	58.3	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°	1177.8	30.4
0°-40°	1887.8	48.8
0°-60°	3166.8	81.9
0°-90°	3868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1549	1549	1541	1545	1545	147
15°	1479	1472	1471	1478	1479	417
25°	1338	1330	1335	1340	1343	616
35°	1143	1134	1138	1134	1136	713
45°	907	900	898	895	895	701
55°	665	656	655	649	649	596
65°	436	427	419	414	416	429
75°	225	217	211	206	202	238
85°	54	52	50	44	42	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1554.8	1554.8	1554.8	1554.8	1554.8
2.5°	1559.8	1553.6	1551.1	1552.3	1559.8
5°	1548.6	1548.6	1541.1	1544.8	1544.8
7.5°	1536.1	1537.4	1529.9	1536.1	1533.6
10°	1521.1	1517.4	1512.4	1522.4	1524.9
12.5°	1507.4	1498.7	1496.2	1502.4	1503.7
15°	1478.7	1472.5	1471.2	1477.5	1478.7
17.5°	1446.3	1447.5	1442.5	1451.3	1450.0
20°	1415.1	1412.6	1410.1	1420.1	1421.3
22.5°	1380.1	1372.6	1375.1	1383.9	1386.4
25°	1337.7	1330.2	1335.2	1340.2	1342.7
27.5°	1292.8	1289.0	1287.8	1294.0	1296.5
30°	1247.9	1241.6	1241.6	1249.1	1245.4
32.5°	1192.9	1188.0	1190.5	1192.9	1194.2
35°	1143.0	1134.3	1138.0	1134.3	1135.5
37.5°	1084.4	1078.1	1076.9	1075.7	1075.7
40°	1029.5	1024.5	1019.5	1019.5	1013.3
42.5°	969.6	963.3	960.8	957.1	953.4
45°	907.2	899.7	898.5	894.7	894.7
47.5°	851.0	839.8	838.6	831.1	831.1
50°	787.4	779.9	774.9	769.9	766.2
52.5°	730.0	722.5	715.0	710.0	706.3
55°	665.1	656.4	655.1	648.9	648.9
57.5°	606.5	599.0	594.0	586.5	587.7
60°	545.3	537.8	535.3	529.1	529.1
62.5°	487.9	481.7	477.9	471.7	466.7
65°	435.5	426.8	419.3	414.3	415.5
67.5°	378.1	368.1	364.4	359.4	355.6
70°	323.2	317.0	310.7	304.5	304.5
72.5°	272.0	265.8	262.0	254.6	252.1
75°	224.6	217.1	210.9	205.9	202.2
77.5°	177.2	169.7	166.0	159.7	159.7
80°	132.3	127.3	123.5	121.0	116.1
82.5°	91.1	88.6	84.9	81.1	77.4
85°	53.7	52.4	49.9	43.7	42.4
87.5°	21.2	21.2	18.7	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)