

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: P296484

Luminaire Tested: **22RLN-LD5-44-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L93050-W2A1-U-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

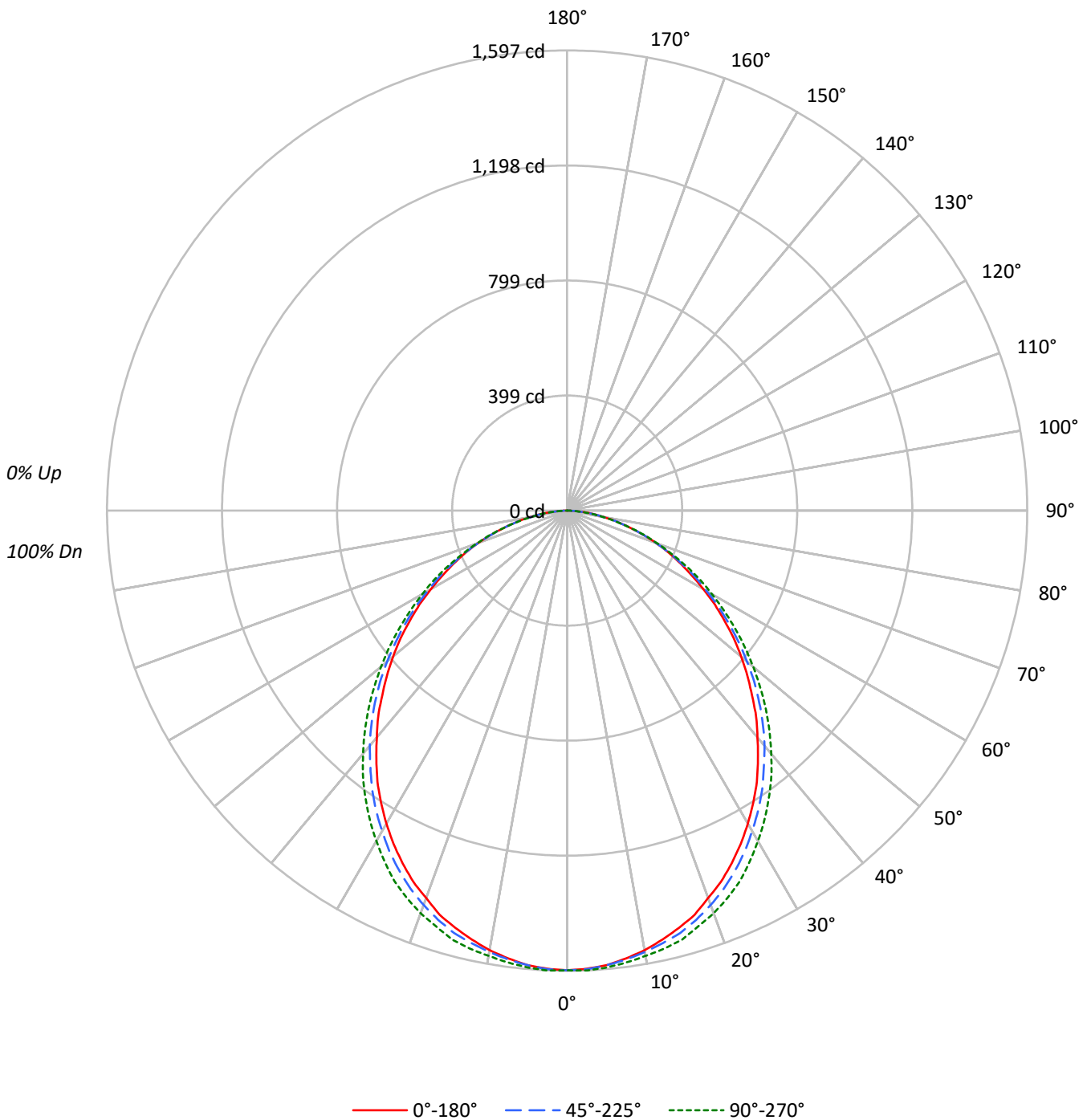
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4293	4293	4293
5°	4277	4277	4299
10°	4233	4250	4288
15°	4176	4227	4294
20°	4098	4172	4259
25°	4010	4094	4213
30°	3897	3991	4116
35°	3771	3876	4008
40°	3609	3743	3870
45°	3452	3589	3712
50°	3302	3411	3529
55°	3126	3220	3333
60°	2938	3013	3122
65°	2760	2811	2900
70°	2574	2574	2621
75°	2296	2296	2296
80°	2021	1959	1959
85°	1612	1550	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.7
10°-20°	427.8	10.6
20°-30°	635.5	15.8
30°-40°	737.5	18.3
40°-50°	726.2	18.0
50°-60°	614.5	15.3
60°-70°	438.3	10.9
70°-80°	235.5	5.9
80°-90°	59.4	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°	1213.7	30.2
0°-40°	1951.2	48.5
0°-60°	3291.9	81.8
0°-90°	4025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1583	1583	1583	1589	1591	150
15°	1499	1503	1517	1531	1541	423
25°	1351	1355	1379	1405	1419	622
35°	1148	1150	1180	1208	1220	716
45°	907	913	943	965	975	701
55°	666	668	686	704	710	597
65°	434	434	442	450	456	430
75°	221	219	221	221	221	237
85°	52	50	50	46	46	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1595.4	1595.4	1595.4	1595.4	1595.4
2.5°	1591.4	1591.4	1593.4	1595.4	1597.4
5°	1583.4	1583.4	1583.4	1589.4	1591.4
7.5°	1567.3	1569.3	1571.3	1577.4	1581.4
10°	1549.3	1551.3	1555.3	1565.3	1569.3
12.5°	1525.2	1531.2	1537.2	1551.3	1557.3
15°	1499.1	1503.1	1517.2	1531.2	1541.2
17.5°	1471.0	1473.0	1489.1	1509.1	1513.1
20°	1430.9	1436.9	1457.0	1477.0	1487.1
22.5°	1394.7	1398.8	1420.8	1446.9	1454.9
25°	1350.6	1354.6	1378.7	1404.8	1418.8
27.5°	1304.4	1308.4	1334.5	1362.6	1372.7
30°	1254.3	1258.3	1284.4	1314.5	1324.5
32.5°	1202.1	1206.1	1234.2	1260.3	1274.3
35°	1147.9	1149.9	1180.0	1208.1	1220.1
37.5°	1087.7	1093.7	1121.8	1149.9	1164.0
40°	1027.5	1033.5	1065.6	1091.7	1101.7
42.5°	971.3	979.3	1005.4	1029.5	1039.5
45°	907.1	913.1	943.2	965.3	975.3
47.5°	848.9	854.9	881.0	903.1	909.1
50°	788.7	792.7	814.8	834.8	842.9
52.5°	728.5	730.5	750.6	770.6	776.6
55°	666.3	668.3	686.3	704.4	710.4
57.5°	608.1	608.1	624.1	638.2	644.2
60°	545.9	545.9	559.9	574.0	580.0
62.5°	487.7	487.7	501.7	511.7	519.8
65°	433.5	433.5	441.5	449.5	455.5
67.5°	381.3	375.3	383.3	393.3	391.3
70°	327.1	321.1	327.1	331.1	333.1
72.5°	272.9	268.9	272.9	274.9	278.9
75°	220.8	218.7	220.8	220.8	220.8
77.5°	176.6	170.6	174.6	172.6	170.6
80°	130.4	128.4	126.4	124.4	126.4
82.5°	90.3	88.3	88.3	84.3	84.3
85°	52.2	50.2	50.2	46.2	46.2
87.5°	20.1	20.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)