

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: P296483

Luminaire Tested: **22RLN-LD5-44-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296483
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-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3727.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

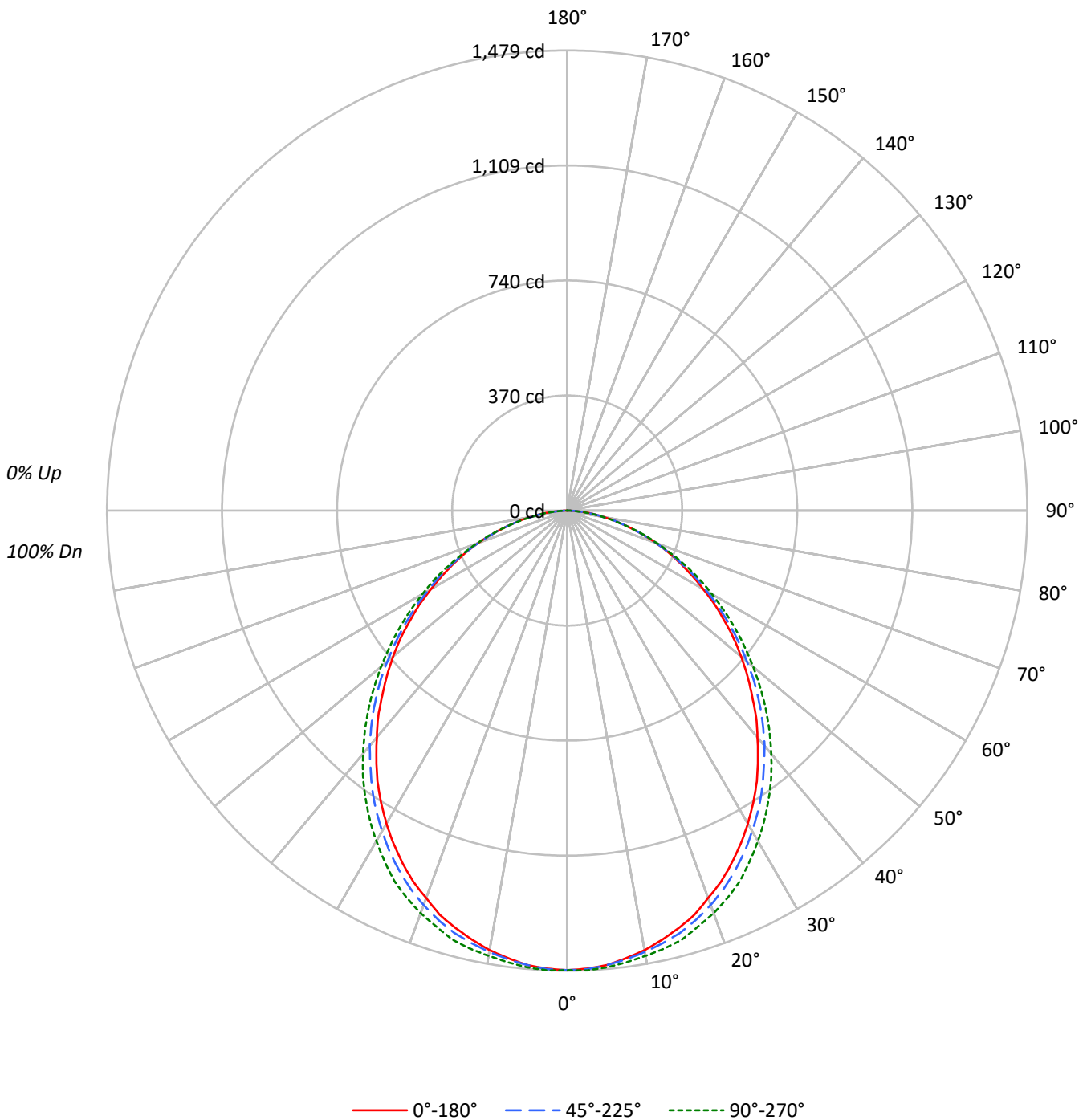
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3975	3975	3975
5°	3961	3961	3981
10°	3920	3935	3971
15°	3867	3914	3976
20°	3794	3863	3943
25°	3713	3790	3901
30°	3609	3695	3811
35°	3492	3589	3711
40°	3342	3466	3584
45°	3196	3324	3437
50°	3057	3158	3268
55°	2894	2981	3086
60°	2720	2790	2890
65°	2556	2603	2686
70°	2383	2383	2427
75°	2125	2125	2125
80°	1872	1815	1815
85°	1491	1436	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	3.7
10°-20°	396.1	10.6
20°-30°	588.4	15.8
30°-40°	682.9	18.3
40°-50°	672.4	18.0
50°-60°	569.0	15.3
60°-70°	405.8	10.9
70°-80°	218.1	5.9
80°-90°	55.0	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°	1123.8	30.2
0°-40°	1806.7	48.5
0°-60°	3048.1	81.8
0°-90°	3727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3727.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1466	1466	1466	1472	1474	139
15°	1388	1392	1405	1418	1427	391
25°	1251	1254	1277	1301	1314	576
35°	1063	1065	1093	1119	1130	663
45°	840	846	873	894	903	649
55°	617	619	636	652	658	553
65°	401	401	409	416	422	398
75°	204	202	204	204	204	219
85°	48	46	46	43	43	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.3	1477.3	1477.3	1477.3	1477.3
2.5°	1473.6	1473.6	1475.4	1477.3	1479.2
5°	1466.2	1466.2	1466.2	1471.7	1473.6
7.5°	1451.3	1453.1	1455.0	1460.6	1464.3
10°	1434.6	1436.4	1440.1	1449.4	1453.1
12.5°	1412.3	1417.8	1423.4	1436.4	1442.0
15°	1388.1	1391.8	1404.8	1417.8	1427.1
17.5°	1362.1	1363.9	1378.8	1397.4	1401.1
20°	1324.9	1330.5	1349.1	1367.7	1377.0
22.5°	1291.5	1295.2	1315.6	1339.8	1347.2
25°	1250.6	1254.3	1276.6	1300.8	1313.8
27.5°	1207.9	1211.6	1235.7	1261.7	1271.0
30°	1161.4	1165.1	1189.3	1217.1	1226.4
32.5°	1113.1	1116.8	1142.8	1167.0	1180.0
35°	1062.9	1064.8	1092.6	1118.7	1129.8
37.5°	1007.2	1012.7	1038.8	1064.8	1077.8
40°	951.4	957.0	986.7	1010.9	1020.2
42.5°	899.4	906.8	931.0	953.3	962.6
45°	839.9	845.5	873.4	893.8	903.1
47.5°	786.0	791.6	815.8	836.2	841.8
50°	730.3	734.0	754.4	773.0	780.5
52.5°	674.5	676.4	695.0	713.6	719.1
55°	616.9	618.8	635.5	652.2	657.8
57.5°	563.0	563.0	577.9	590.9	596.5
60°	505.4	505.4	518.4	531.5	537.0
62.5°	451.6	451.6	464.6	473.9	481.3
65°	401.4	401.4	408.8	416.2	421.8
67.5°	353.1	347.5	354.9	364.2	362.4
70°	302.9	297.3	302.9	306.6	308.5
72.5°	252.7	249.0	252.7	254.6	258.3
75°	204.4	202.5	204.4	204.4	204.4
77.5°	163.5	158.0	161.7	159.8	158.0
80°	120.8	118.9	117.1	115.2	117.1
82.5°	83.6	81.8	81.8	78.0	78.0
85°	48.3	46.5	46.5	42.7	42.7
87.5°	18.6	18.6	16.7	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)