

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: P296394

Luminaire Tested: **22RLN-LD5-40-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296394
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-LD5-40-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4004.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

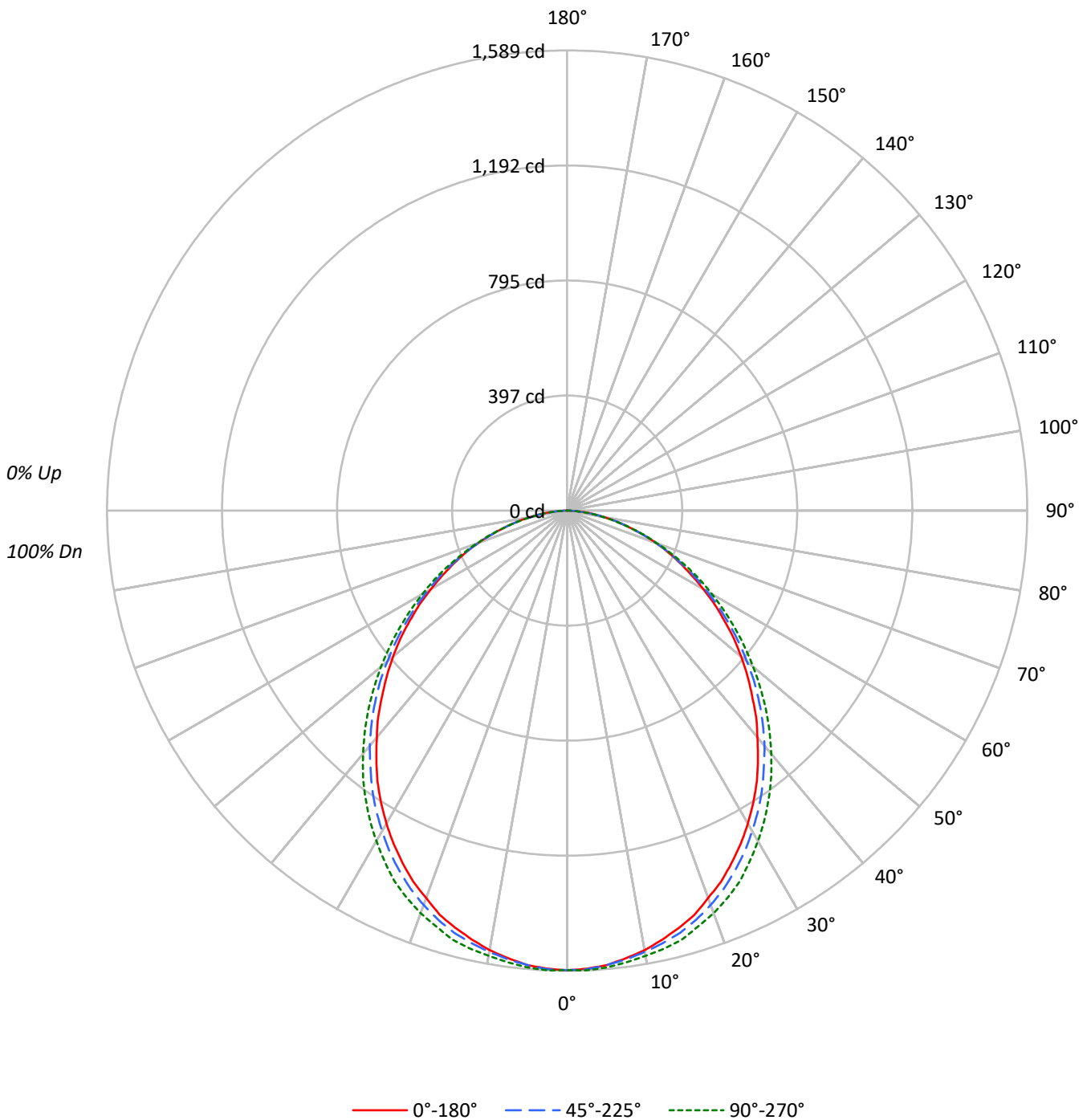
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4271	4271	4271
5°	4255	4255	4276
10°	4211	4228	4266
15°	4155	4204	4271
20°	4076	4150	4236
25°	3989	4072	4191
30°	3877	3970	4094
35°	3751	3856	3987
40°	3590	3724	3850
45°	3434	3571	3692
50°	3285	3393	3510
55°	3110	3203	3316
60°	2922	2998	3105
65°	2746	2797	2886
70°	2560	2560	2607
75°	2283	2283	2283
80°	2011	1949	1949
85°	1602	1541	1417



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.7
10°-20°	425.5	10.6
20°-30°	632.1	15.8
30°-40°	733.6	18.3
40°-50°	722.4	18.0
50°-60°	611.3	15.3
60°-70°	436.0	10.9
70°-80°	234.3	5.9
80°-90°	59.0	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°	1207.4	30.2
0°-40°	1941.0	48.5
0°-60°	3274.7	81.8
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1575	1575	1575	1581	1583	149
15°	1491	1495	1509	1523	1533	420
25°	1344	1348	1372	1397	1411	618
35°	1142	1144	1174	1202	1214	713
45°	902	908	938	960	970	698
55°	663	665	683	701	707	594
65°	431	431	439	447	453	428
75°	220	218	220	220	220	236
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°	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1583.1	1583.1	1585.1	1587.1	1589.1
5°	1575.1	1575.1	1575.1	1581.1	1583.1
7.5°	1559.1	1561.1	1563.1	1569.1	1573.1
10°	1541.2	1543.2	1547.2	1557.2	1561.1
12.5°	1517.2	1523.2	1529.2	1543.2	1549.2
15°	1491.3	1495.3	1509.2	1523.2	1533.2
17.5°	1463.3	1465.3	1481.3	1501.3	1505.2
20°	1423.4	1429.4	1449.3	1469.3	1479.3
22.5°	1387.5	1391.5	1413.4	1439.4	1447.4
25°	1343.5	1347.5	1371.5	1397.4	1411.4
27.5°	1297.6	1301.6	1327.6	1355.5	1365.5
30°	1247.7	1251.7	1277.7	1307.6	1317.6
32.5°	1195.8	1199.8	1227.8	1253.7	1267.7
35°	1141.9	1143.9	1173.9	1201.8	1213.8
37.5°	1082.0	1088.0	1116.0	1143.9	1157.9
40°	1022.1	1028.1	1060.1	1086.0	1096.0
42.5°	966.2	974.2	1000.2	1024.1	1034.1
45°	902.4	908.3	938.3	960.2	970.2
47.5°	844.5	850.4	876.4	898.4	904.3
50°	784.6	788.6	810.5	830.5	838.5
52.5°	724.7	726.7	746.6	766.6	772.6
55°	662.8	664.8	682.8	700.7	706.7
57.5°	604.9	604.9	620.9	634.8	640.8
60°	543.0	543.0	557.0	571.0	576.9
62.5°	485.1	485.1	499.1	509.1	517.1
65°	431.2	431.2	439.2	447.2	453.2
67.5°	379.3	373.3	381.3	391.3	389.3
70°	325.4	319.4	325.4	329.4	331.4
72.5°	271.5	267.5	271.5	273.5	277.5
75°	219.6	217.6	219.6	219.6	219.6
77.5°	175.7	169.7	173.7	171.7	169.7
80°	129.8	127.8	125.8	123.8	125.8
82.5°	89.8	87.8	87.8	83.8	83.8
85°	51.9	49.9	49.9	45.9	45.9
87.5°	20.0	20.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)