

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: P296540

Luminaire Tested: **22RLN-LD5-44-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296540
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-L92765-W2A1-U-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4162.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

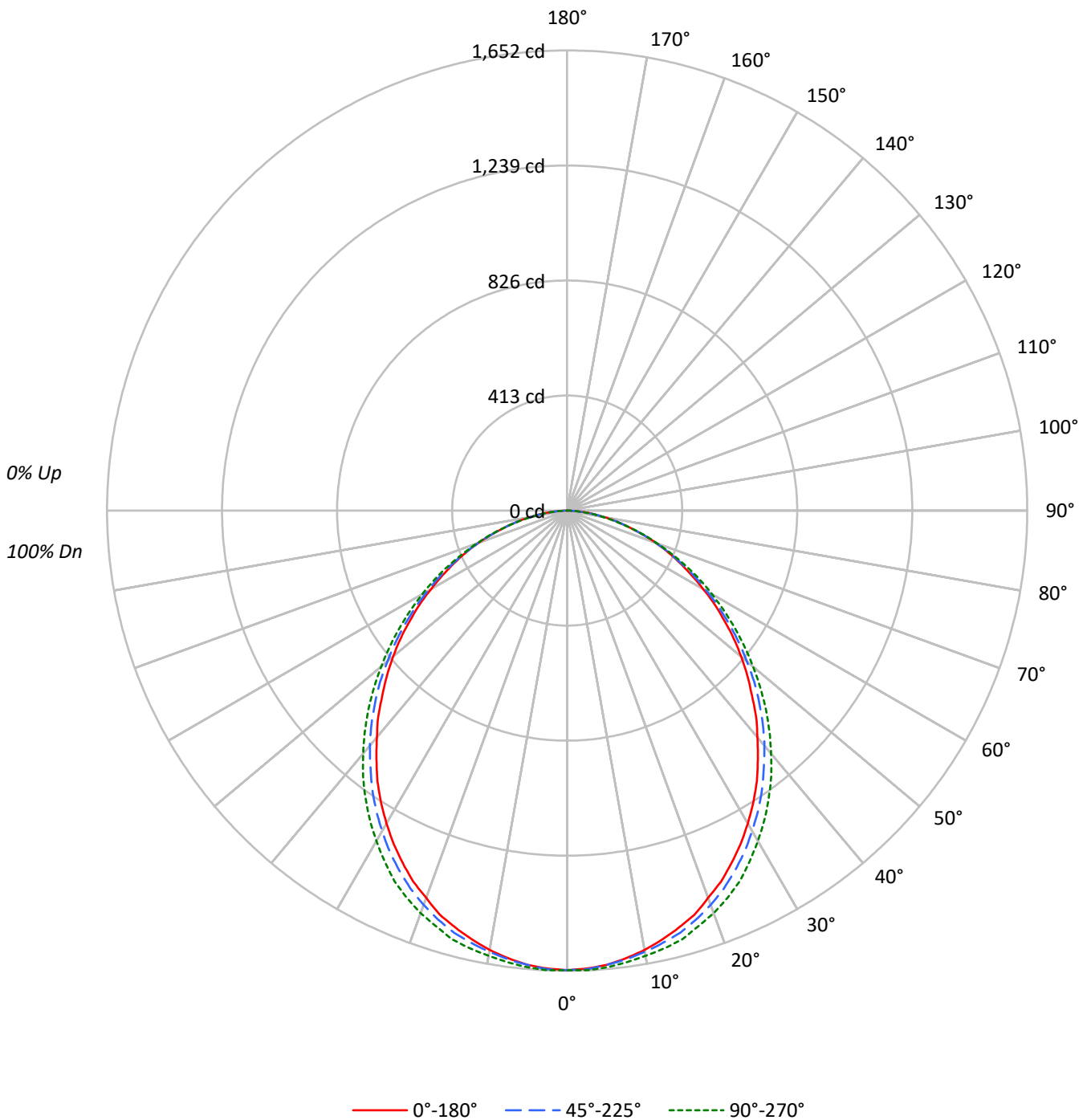
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40					40			
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36					36			
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4439	4439	4439
5°	4423	4423	4445
10°	4377	4394	4434
15°	4318	4371	4440
20°	4237	4314	4403
25°	4147	4233	4356
30°	4030	4127	4256
35°	3899	4008	4145
40°	3732	3871	4002
45°	3570	3712	3838
50°	3414	3527	3649
55°	3232	3330	3446
60°	3038	3116	3228
65°	2854	2907	3000
70°	2661	2661	2710
75°	2374	2374	2374
80°	2091	2025	2025
85°	1667	1602	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	3.7
10°-20°	442.3	10.6
20°-30°	657.1	15.8
30°-40°	762.6	18.3
40°-50°	750.9	18.0
50°-60°	635.5	15.3
60°-70°	453.2	10.9
70°-80°	243.5	5.9
80°-90°	61.4	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°	1255.0	30.2
0°-40°	2017.6	48.5
0°-60°	3403.9	81.8
0°-90°	4162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1637	1637	1637	1644	1646	155
15°	1550	1554	1569	1583	1594	437
25°	1397	1401	1426	1453	1467	643
35°	1187	1189	1220	1249	1262	741
45°	938	944	975	998	1008	725
55°	689	691	710	728	735	617
65°	448	448	456	465	471	445
75°	228	226	228	228	228	245
85°	54	52	52	48	48	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.7	1649.7	1649.7	1649.7	1649.7
2.5°	1645.6	1645.6	1647.7	1649.7	1651.8
5°	1637.3	1637.3	1637.3	1643.5	1645.6
7.5°	1620.7	1622.7	1624.8	1631.0	1635.2
10°	1602.0	1604.1	1608.2	1618.6	1622.7
12.5°	1577.1	1583.3	1589.5	1604.1	1610.3
15°	1550.1	1554.3	1568.8	1583.3	1593.7
17.5°	1521.1	1523.1	1539.7	1560.5	1564.6
20°	1479.6	1485.8	1506.5	1527.3	1537.7
22.5°	1442.2	1446.4	1469.2	1496.2	1504.5
25°	1396.6	1400.7	1425.6	1452.6	1467.1
27.5°	1348.8	1353.0	1380.0	1409.0	1419.4
30°	1297.0	1301.1	1328.1	1359.2	1369.6
32.5°	1243.0	1247.2	1276.2	1303.2	1317.7
35°	1187.0	1189.0	1220.2	1249.2	1261.7
37.5°	1124.7	1130.9	1160.0	1189.0	1203.6
40°	1062.5	1068.7	1101.9	1128.9	1139.2
42.5°	1004.4	1012.7	1039.6	1064.5	1074.9
45°	938.0	944.2	975.3	998.1	1008.5
47.5°	877.8	884.0	911.0	933.8	940.0
50°	815.5	819.7	842.5	863.3	871.6
52.5°	753.3	755.3	776.1	796.8	803.1
55°	688.9	691.0	709.7	728.4	734.6
57.5°	628.8	628.8	645.4	659.9	666.1
60°	564.4	564.4	579.0	593.5	599.7
62.5°	504.3	504.3	518.8	529.2	537.5
65°	448.2	448.2	456.5	464.8	471.1
67.5°	394.3	388.0	396.3	406.7	404.6
70°	338.2	332.0	338.2	342.4	344.5
72.5°	282.2	278.1	282.2	284.3	288.4
75°	228.3	226.2	228.3	228.3	228.3
77.5°	182.6	176.4	180.5	178.5	176.4
80°	134.9	132.8	130.7	128.7	130.7
82.5°	93.4	91.3	91.3	87.2	87.2
85°	54.0	51.9	51.9	47.7	47.7
87.5°	20.8	20.8	18.7	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)