

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: P296445

Luminaire Tested: **22RLN-LD5-40-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296445
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-L82765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

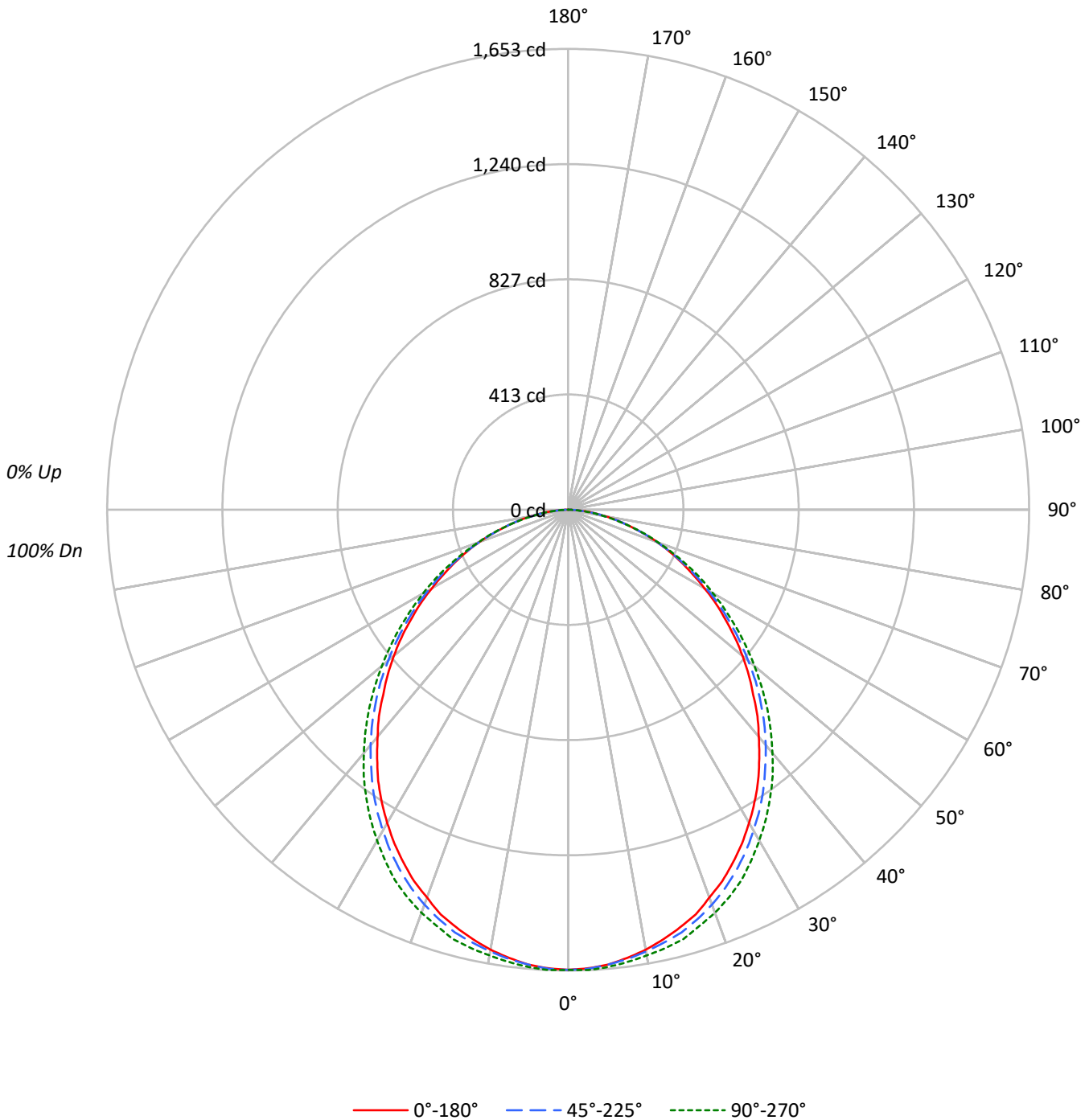
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4441	4441	4441
5°	4425	4425	4447
10°	4380	4397	4436
15°	4321	4372	4442
20°	4239	4316	4405
25°	4149	4235	4358
30°	4032	4129	4258
35°	3901	4010	4147
40°	3734	3873	4004
45°	3571	3714	3840
50°	3416	3529	3651
55°	3234	3331	3448
60°	3039	3117	3229
65°	2855	2908	3001
70°	2662	2662	2711
75°	2375	2375	2375
80°	2091	2027	2027
85°	1667	1602	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	3.7
10°-20°	442.5	10.6
20°-30°	657.4	15.8
30°-40°	763.0	18.3
40°-50°	751.2	18.0
50°-60°	635.8	15.3
60°-70°	453.4	10.9
70°-80°	243.7	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°	1255.6	30.2
0°-40°	2018.6	48.5
0°-60°	3405.6	81.8
0°-90°	4164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1638	1638	1638	1644	1646	155
15°	1551	1555	1570	1584	1594	437
25°	1397	1401	1426	1453	1468	643
35°	1188	1190	1221	1250	1262	741
45°	938	945	976	999	1009	726
55°	689	691	710	729	735	617
65°	448	448	457	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°	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1646.4	1646.4	1648.4	1650.5	1652.6
5°	1638.1	1638.1	1638.1	1644.3	1646.4
7.5°	1621.5	1623.5	1625.6	1631.8	1636.0
10°	1602.8	1604.8	1609.0	1619.4	1623.5
12.5°	1577.9	1584.1	1590.3	1604.8	1611.1
15°	1550.9	1555.0	1569.5	1584.1	1594.5
17.5°	1521.8	1523.9	1540.5	1561.2	1565.4
20°	1480.3	1486.5	1507.3	1528.0	1538.4
22.5°	1442.9	1447.1	1469.9	1496.9	1505.2
25°	1397.2	1401.4	1426.3	1453.3	1467.8
27.5°	1349.5	1353.6	1380.6	1409.7	1420.1
30°	1297.6	1301.7	1328.7	1359.9	1370.2
32.5°	1243.6	1247.8	1276.8	1303.8	1318.3
35°	1187.5	1189.6	1220.8	1249.8	1262.3
37.5°	1125.3	1131.5	1160.6	1189.6	1204.2
40°	1063.0	1069.2	1102.4	1129.4	1139.8
42.5°	1004.8	1013.1	1040.1	1065.1	1075.4
45°	938.4	944.6	975.8	998.6	1009.0
47.5°	878.2	884.4	911.4	934.3	940.5
50°	815.9	820.1	842.9	863.7	872.0
52.5°	753.6	755.7	776.5	797.2	803.5
55°	689.3	691.3	710.0	728.7	734.9
57.5°	629.1	629.1	645.7	660.2	666.4
60°	564.7	564.7	579.2	593.8	600.0
62.5°	504.5	504.5	519.0	529.4	537.7
65°	448.4	448.4	456.7	465.1	471.3
67.5°	394.5	388.2	396.5	406.9	404.8
70°	338.4	332.2	338.4	342.6	344.6
72.5°	282.4	278.2	282.4	284.4	288.6
75°	228.4	226.3	228.4	228.4	228.4
77.5°	182.7	176.5	180.6	178.5	176.5
80°	134.9	132.9	130.8	128.7	130.8
82.5°	93.4	91.3	91.3	87.2	87.2
85°	54.0	51.9	51.9	47.8	47.8
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)