

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: P296446

Luminaire Tested: **22RLN-LD5-40-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296446
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4174.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

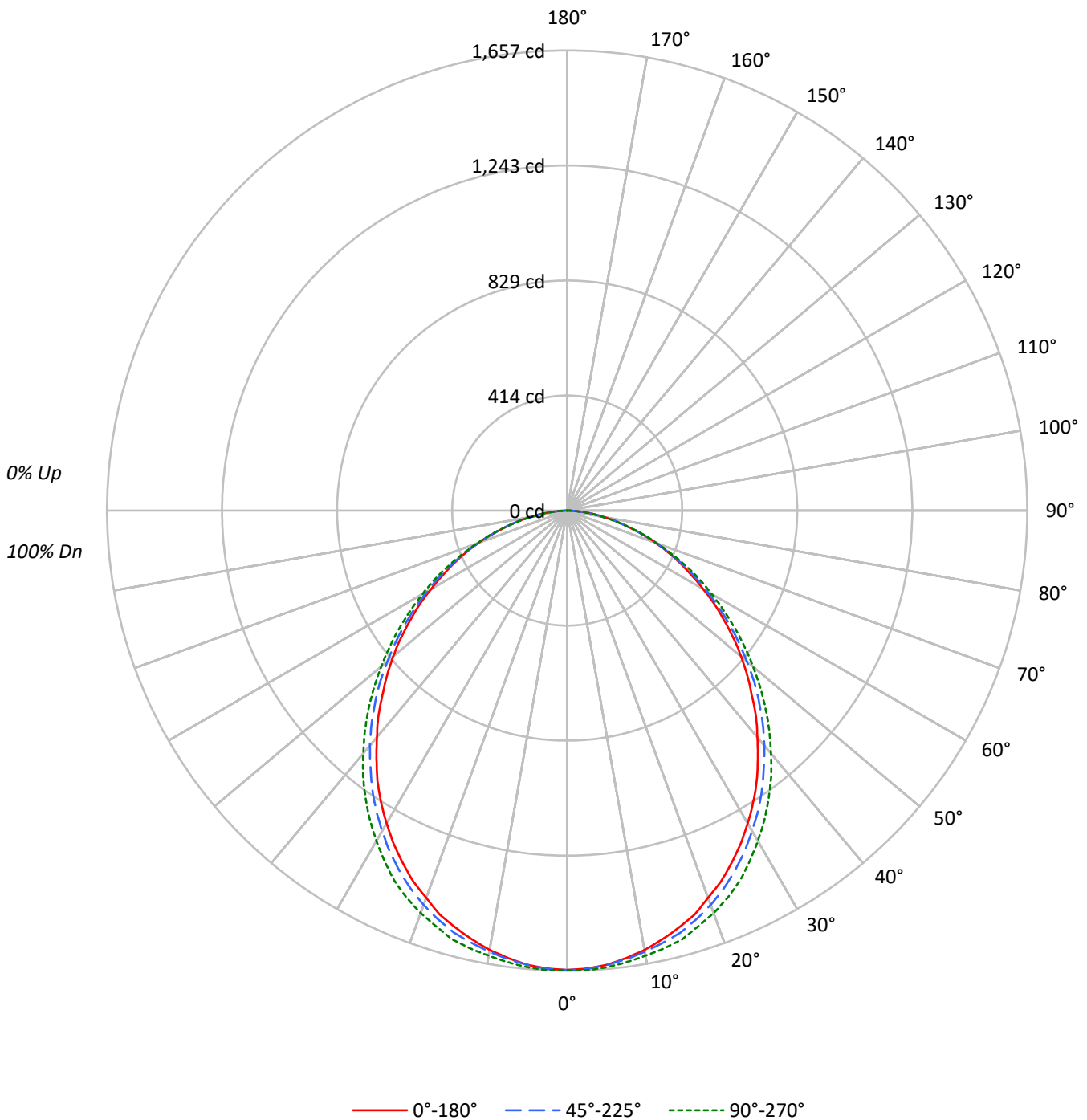
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4452	4452	4452
5°	4435	4435	4458
10°	4390	4407	4447
15°	4331	4383	4453
20°	4249	4327	4416
25°	4159	4245	4369
30°	4042	4139	4268
35°	3911	4020	4157
40°	3743	3882	4013
45°	3580	3722	3849
50°	3424	3537	3659
55°	3241	3339	3456
60°	3047	3125	3237
65°	2862	2915	3008
70°	2669	2669	2718
75°	2380	2380	2380
80°	2097	2032	2032
85°	1670	1606	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	3.7
10°-20°	443.6	10.6
20°-30°	659.0	15.8
30°-40°	764.8	18.3
40°-50°	753.0	18.0
50°-60°	637.3	15.3
60°-70°	454.5	10.9
70°-80°	244.2	5.9
80°-90°	61.5	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°	1258.6	30.2
0°-40°	2023.4	48.5
0°-60°	3413.7	81.8
0°-90°	4174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1642	1642	1642	1648	1650	156
15°	1555	1559	1573	1588	1598	438
25°	1401	1405	1430	1457	1471	645
35°	1190	1192	1224	1253	1265	743
45°	941	947	978	1001	1011	727
55°	691	693	712	730	737	619
65°	450	450	458	466	472	446
75°	229	227	229	229	229	246
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°	1654.5	1654.5	1654.5	1654.5	1654.5
2.5°	1650.3	1650.3	1652.4	1654.5	1656.6
5°	1642.0	1642.0	1642.0	1648.2	1650.3
7.5°	1625.3	1627.4	1629.5	1635.8	1639.9
10°	1606.6	1608.7	1612.9	1623.3	1627.4
12.5°	1581.6	1587.9	1594.1	1608.7	1614.9
15°	1554.6	1558.8	1573.3	1587.9	1598.3
17.5°	1525.5	1527.5	1544.2	1565.0	1569.2
20°	1483.8	1490.1	1510.9	1531.7	1542.1
22.5°	1446.4	1450.5	1473.4	1500.5	1508.8
25°	1400.6	1404.7	1429.7	1456.8	1471.3
27.5°	1352.7	1356.9	1383.9	1413.1	1423.5
30°	1300.7	1304.9	1331.9	1363.1	1373.5
32.5°	1246.6	1250.7	1279.9	1306.9	1321.5
35°	1190.4	1192.5	1223.7	1252.8	1265.3
37.5°	1128.0	1134.2	1163.3	1192.5	1207.0
40°	1065.5	1071.8	1105.1	1132.1	1142.5
42.5°	1007.3	1015.6	1042.6	1067.6	1078.0
45°	940.7	946.9	978.1	1001.0	1011.4
47.5°	880.3	886.6	913.6	936.5	942.7
50°	817.9	822.0	844.9	865.7	874.1
52.5°	755.4	757.5	778.3	799.1	805.4
55°	690.9	693.0	711.7	730.5	736.7
57.5°	630.6	630.6	647.2	661.8	668.0
60°	566.1	566.1	580.6	595.2	601.4
62.5°	505.7	505.7	520.3	530.7	539.0
65°	449.5	449.5	457.8	466.2	472.4
67.5°	395.4	389.2	397.5	407.9	405.8
70°	339.2	333.0	339.2	343.4	345.5
72.5°	283.0	278.9	283.0	285.1	289.3
75°	228.9	226.8	228.9	228.9	228.9
77.5°	183.1	176.9	181.1	179.0	176.9
80°	135.3	133.2	131.1	129.0	131.1
82.5°	93.6	91.6	91.6	87.4	87.4
85°	54.1	52.0	52.0	47.9	47.9
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)