

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: P296444

Luminaire Tested: **22RLN-LD5-40-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296444
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-5000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4123.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

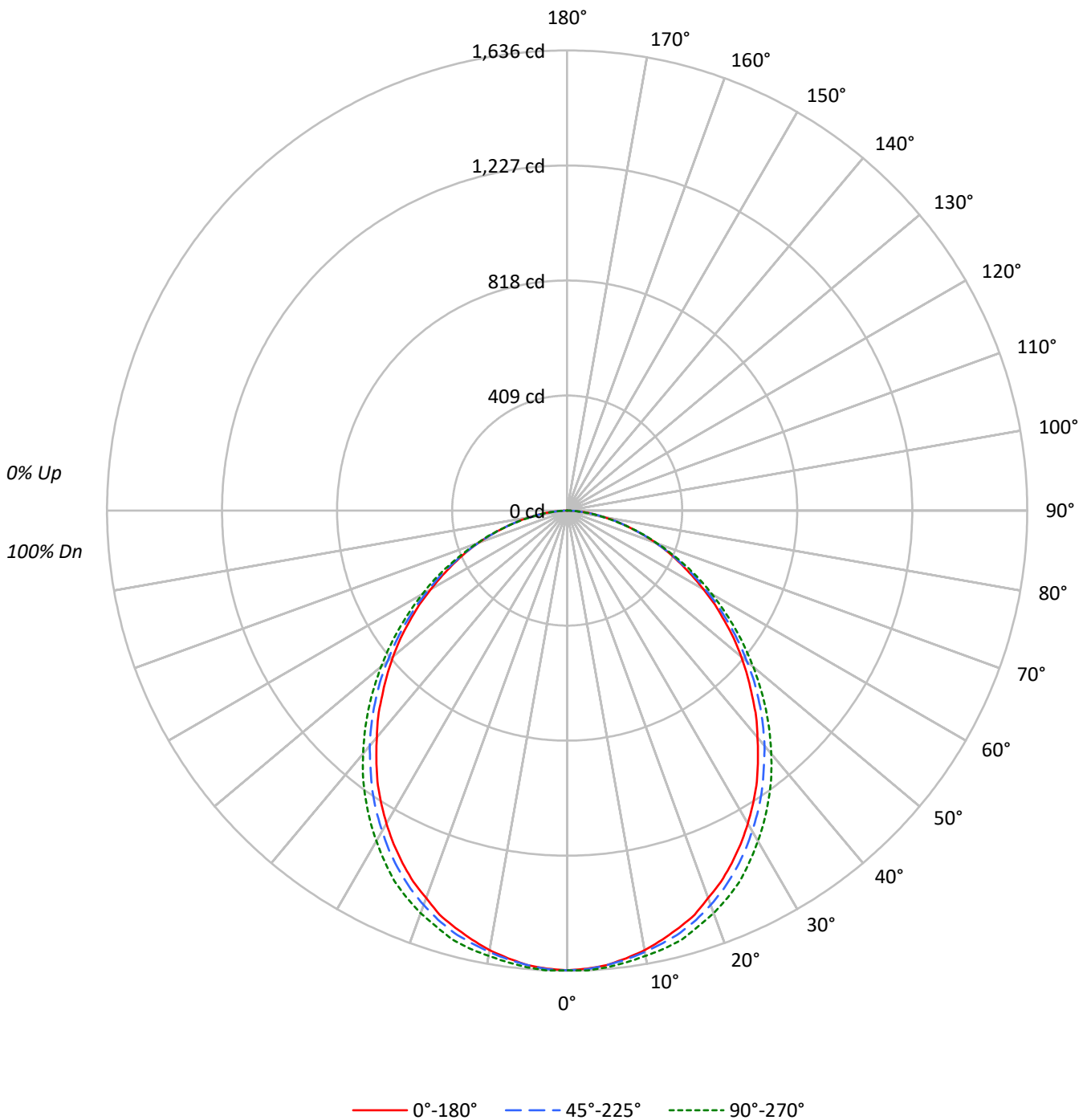
Input Watts (W): 32.829
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4398	4398	4398
5°	4381	4381	4404
10°	4336	4353	4392
15°	4278	4330	4398
20°	4197	4274	4362
25°	4108	4193	4315
30°	3992	4088	4216
35°	3863	3971	4106
40°	3697	3835	3965
45°	3536	3677	3802
50°	3382	3494	3615
55°	3202	3298	3414
60°	3009	3087	3197
65°	2827	2880	2971
70°	2637	2637	2685
75°	2351	2351	2351
80°	2070	2007	2007
85°	1649	1587	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	3.7
10°-20°	438.2	10.6
20°-30°	650.9	15.8
30°-40°	755.4	18.3
40°-50°	743.9	18.0
50°-60°	629.5	15.3
60°-70°	448.9	10.9
70°-80°	241.2	5.9
80°-90°	60.8	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°	1243.2	30.2
0°-40°	1998.7	48.5
0°-60°	3372.0	81.8
0°-90°	4123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1622	1622	1622	1628	1630	154
15°	1536	1540	1554	1568	1579	433
25°	1384	1388	1412	1439	1453	637
35°	1176	1178	1209	1238	1250	734
45°	929	935	966	989	999	718
55°	682	684	703	722	728	611
65°	444	444	452	460	467	441
75°	226	224	226	226	226	243
85°	53	51	51	47	47	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.3	1634.3	1634.3	1634.3	1634.3
2.5°	1630.2	1630.2	1632.2	1634.3	1636.3
5°	1621.9	1621.9	1621.9	1628.1	1630.2
7.5°	1605.5	1607.5	1609.6	1615.8	1619.9
10°	1587.0	1589.0	1593.2	1603.4	1607.5
12.5°	1562.3	1568.5	1574.7	1589.0	1595.2
15°	1535.6	1539.7	1554.1	1568.5	1578.8
17.5°	1506.8	1508.9	1525.3	1545.9	1550.0
20°	1465.7	1471.9	1492.4	1513.0	1523.3
22.5°	1428.7	1432.8	1455.4	1482.1	1490.4
25°	1383.5	1387.6	1412.3	1439.0	1453.4
27.5°	1336.2	1340.3	1367.0	1395.8	1406.1
30°	1284.8	1288.9	1315.6	1346.5	1356.8
32.5°	1231.4	1235.5	1264.2	1291.0	1305.4
35°	1175.9	1177.9	1208.7	1237.5	1249.9
37.5°	1114.2	1120.3	1149.1	1177.9	1192.3
40°	1052.5	1058.7	1091.6	1118.3	1128.6
42.5°	995.0	1003.2	1029.9	1054.6	1064.8
45°	929.2	935.3	966.2	988.8	999.1
47.5°	869.6	875.7	902.4	925.1	931.2
50°	807.9	812.0	834.6	855.2	863.4
52.5°	746.2	748.3	768.8	789.4	795.5
55°	682.5	684.5	703.0	721.5	727.7
57.5°	622.9	622.9	639.3	653.7	659.9
60°	559.1	559.1	573.5	587.9	594.1
62.5°	499.5	499.5	513.9	524.2	532.4
65°	444.0	444.0	452.3	460.5	466.6
67.5°	390.6	384.4	392.6	402.9	400.9
70°	335.1	328.9	335.1	339.2	341.2
72.5°	279.6	275.5	279.6	281.6	285.7
75°	226.1	224.1	226.1	226.1	226.1
77.5°	180.9	174.7	178.8	176.8	174.7
80°	133.6	131.6	129.5	127.5	129.5
82.5°	92.5	90.5	90.5	86.3	86.3
85°	53.4	51.4	51.4	47.3	47.3
87.5°	20.6	20.6	18.5	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)