

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: P296439

Luminaire Tested: **22RLN-LD5-40-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296439
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-2700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3674.0 lumens
Efficiency: N/A
Efficacy: 114.5 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

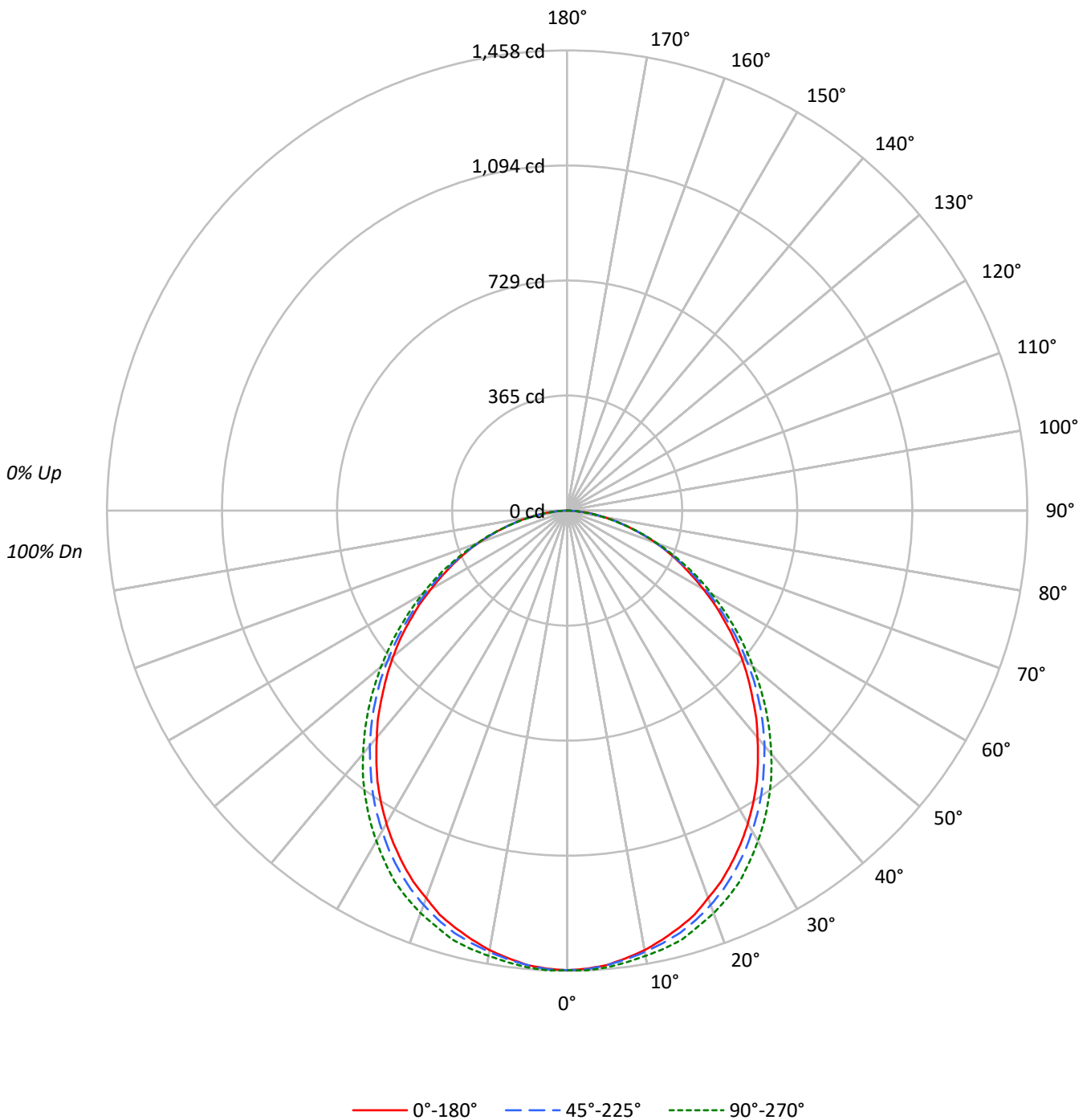
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3919	3919	3919
5°	3904	3904	3924
10°	3864	3879	3914
15°	3812	3858	3919
20°	3740	3808	3887
25°	3660	3737	3845
30°	3558	3643	3757
35°	3442	3538	3659
40°	3295	3417	3533
45°	3151	3277	3388
50°	3014	3113	3221
55°	2853	2939	3042
60°	2682	2751	2849
65°	2520	2566	2648
70°	2349	2349	2393
75°	2095	2095	2095
80°	1846	1788	1788
85°	1470	1414	1300



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.7
10°-20°	390.5	10.6
20°-30°	580.0	15.8
30°-40°	673.2	18.3
40°-50°	662.8	18.0
50°-60°	560.9	15.3
60°-70°	400.0	10.9
70°-80°	215.0	5.9
80°-90°	54.2	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°	1107.9	30.2
0°-40°	1781.0	48.5
0°-60°	3004.8	81.8
0°-90°	3674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1445	1445	1445	1451	1453	137
15°	1368	1372	1385	1398	1407	386
25°	1233	1236	1258	1282	1295	567
35°	1048	1050	1077	1103	1114	654
45°	828	834	861	881	890	640
55°	608	610	626	643	648	545
65°	396	396	403	410	416	393
75°	202	200	202	202	202	216
85°	48	46	46	42	42	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.3	1456.3	1456.3	1456.3	1456.3
2.5°	1452.6	1452.6	1454.5	1456.3	1458.1
5°	1445.3	1445.3	1445.3	1450.8	1452.6
7.5°	1430.6	1432.5	1434.3	1439.8	1443.5
10°	1414.2	1416.0	1419.7	1428.8	1432.5
12.5°	1392.2	1397.7	1403.2	1416.0	1421.5
15°	1368.4	1372.0	1384.9	1397.7	1406.8
17.5°	1342.7	1344.6	1359.2	1377.5	1381.2
20°	1306.1	1311.6	1329.9	1348.2	1357.4
22.5°	1273.1	1276.8	1296.9	1320.7	1328.1
25°	1232.8	1236.5	1258.5	1282.3	1295.1
27.5°	1190.7	1194.3	1218.2	1243.8	1253.0
30°	1144.9	1148.5	1172.4	1199.8	1209.0
32.5°	1097.3	1100.9	1126.6	1150.4	1163.2
35°	1047.8	1049.6	1077.1	1102.8	1113.7
37.5°	992.8	998.3	1024.0	1049.6	1062.5
40°	937.9	943.4	972.7	996.5	1005.7
42.5°	886.6	893.9	917.7	939.7	948.9
45°	828.0	833.5	861.0	881.1	890.3
47.5°	774.9	780.4	804.2	824.3	829.8
50°	719.9	723.6	743.7	762.0	769.4
52.5°	664.9	666.8	685.1	703.4	708.9
55°	608.2	610.0	626.5	643.0	648.5
57.5°	555.0	555.0	569.7	582.5	588.0
60°	498.3	498.3	511.1	523.9	529.4
62.5°	445.1	445.1	458.0	467.1	474.4
65°	395.7	395.7	403.0	410.3	415.8
67.5°	348.0	342.5	349.9	359.0	357.2
70°	298.6	293.1	298.6	302.2	304.1
72.5°	249.1	245.5	249.1	251.0	254.6
75°	201.5	199.7	201.5	201.5	201.5
77.5°	161.2	155.7	159.4	157.5	155.7
80°	119.1	117.2	115.4	113.6	115.4
82.5°	82.4	80.6	80.6	76.9	76.9
85°	47.6	45.8	45.8	42.1	42.1
87.5°	18.3	18.3	16.5	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)