

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: P296393

Luminaire Tested: **22RLN-LD5-40-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296393
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-L83050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3784.0 lumens
Efficiency: N/A
Efficacy: 118.3 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

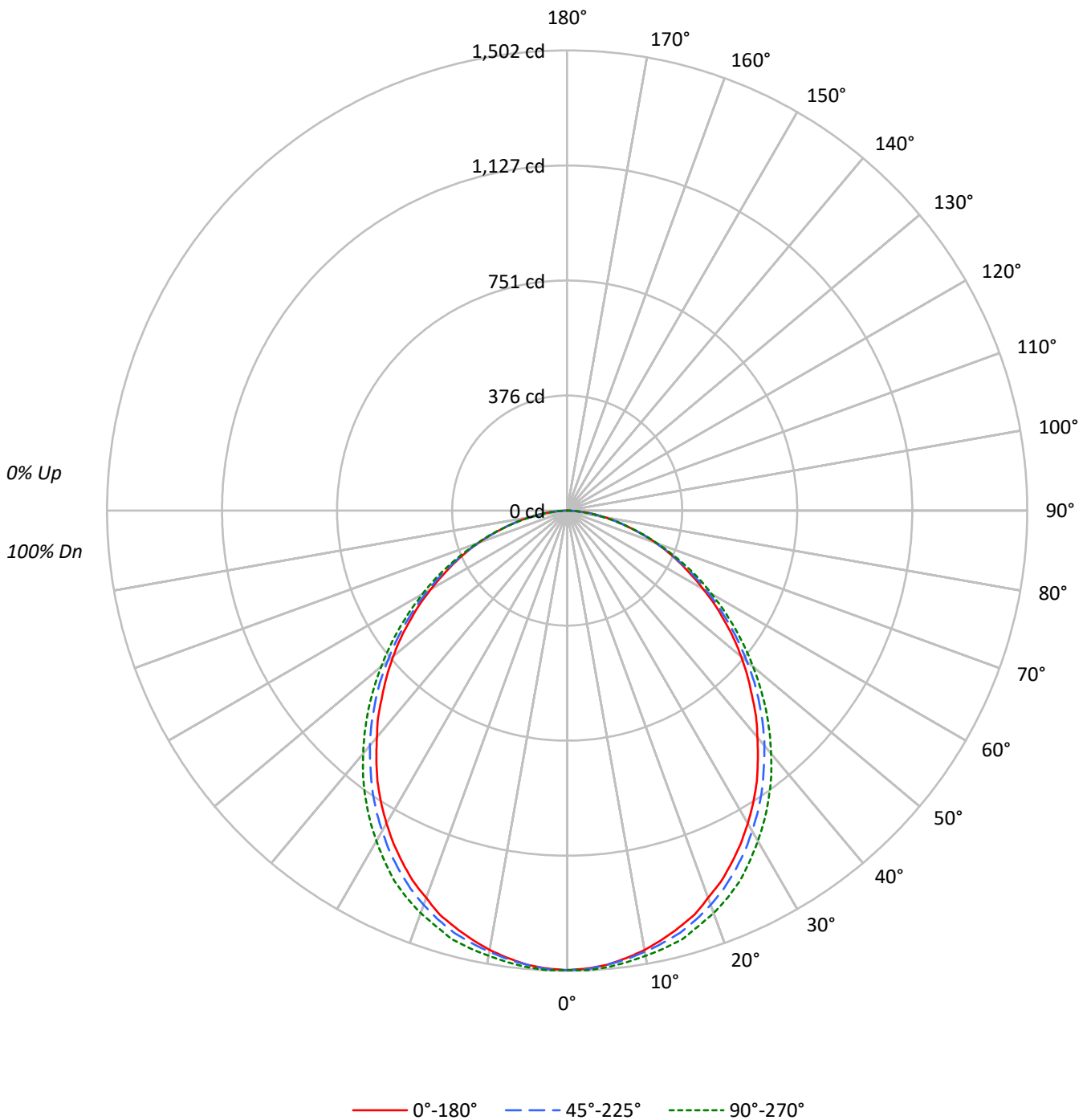
Input Watts (W): 31.992
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4036	4036	4036
5°	4021	4021	4041
10°	3980	3995	4032
15°	3926	3974	4037
20°	3852	3922	4003
25°	3770	3848	3961
30°	3664	3752	3869
35°	3545	3644	3768
40°	3393	3519	3639
45°	3245	3374	3489
50°	3104	3207	3317
55°	2939	3027	3134
60°	2762	2833	2934
65°	2595	2643	2727
70°	2419	2419	2464
75°	2157	2157	2157
80°	1900	1843	1843
85°	1516	1457	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.7
10°-20°	402.2	10.6
20°-30°	597.4	15.8
30°-40°	693.3	18.3
40°-50°	682.7	18.0
50°-60°	577.7	15.3
60°-70°	412.0	10.9
70°-80°	221.4	5.9
80°-90°	55.8	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°	1141.0	30.2
0°-40°	1834.3	48.5
0°-60°	3094.8	81.8
0°-90°	3784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3784.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1500	1500	1500	1500	1500	
5°	1489	1489	1489	1494	1496	141
15°	1409	1413	1426	1440	1449	397
25°	1270	1274	1296	1321	1334	584
35°	1079	1081	1109	1136	1147	673
45°	853	858	887	908	917	659
55°	626	628	645	662	668	561
65°	408	408	415	423	428	404
75°	208	206	208	208	208	223
85°	49	47	47	43	43	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1499.9	1499.9	1499.9	1499.9	1499.9
2.5°	1496.1	1496.1	1498.0	1499.9	1501.8
5°	1488.6	1488.6	1488.6	1494.2	1496.1
7.5°	1473.5	1475.4	1477.3	1482.9	1486.7
10°	1456.5	1458.4	1462.2	1471.6	1475.4
12.5°	1433.9	1439.5	1445.2	1458.4	1464.0
15°	1409.3	1413.1	1426.3	1439.5	1449.0
17.5°	1382.9	1384.8	1399.9	1418.8	1422.5
20°	1345.2	1350.8	1369.7	1388.6	1398.0
22.5°	1311.2	1315.0	1335.8	1360.3	1367.8
25°	1269.7	1273.5	1296.1	1320.7	1333.9
27.5°	1226.3	1230.1	1254.6	1281.0	1290.5
30°	1179.2	1182.9	1207.5	1235.8	1245.2
32.5°	1130.1	1133.9	1160.3	1184.8	1198.0
35°	1079.2	1081.1	1109.4	1135.8	1147.1
37.5°	1022.6	1028.2	1054.6	1081.1	1094.3
40°	966.0	971.6	1001.8	1026.3	1035.8
42.5°	913.1	920.7	945.2	967.9	977.3
45°	852.8	858.4	886.7	907.5	916.9
47.5°	798.1	803.7	828.2	849.0	854.7
50°	741.5	745.2	766.0	784.9	792.4
52.5°	684.9	686.7	705.6	724.5	730.1
55°	626.4	628.3	645.2	662.2	667.9
57.5°	571.7	571.7	586.8	600.0	605.6
60°	513.2	513.2	526.4	539.6	545.2
62.5°	458.5	458.5	471.7	481.1	488.6
65°	407.5	407.5	415.1	422.6	428.3
67.5°	358.5	352.8	360.4	369.8	367.9
70°	307.5	301.9	307.5	311.3	313.2
72.5°	256.6	252.8	256.6	258.5	262.2
75°	207.5	205.6	207.5	207.5	207.5
77.5°	166.0	160.4	164.1	162.3	160.4
80°	122.6	120.7	118.9	117.0	118.9
82.5°	84.9	83.0	83.0	79.2	79.2
85°	49.1	47.2	47.2	43.4	43.4
87.5°	18.9	18.9	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)