

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: P296482

Luminaire Tested: **22RLN-LD5-44-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296482
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-LD5-44-UNV-L93050-W2A1-U-3000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3412.0 lumens
Efficiency: N/A
Efficacy: 93.6 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

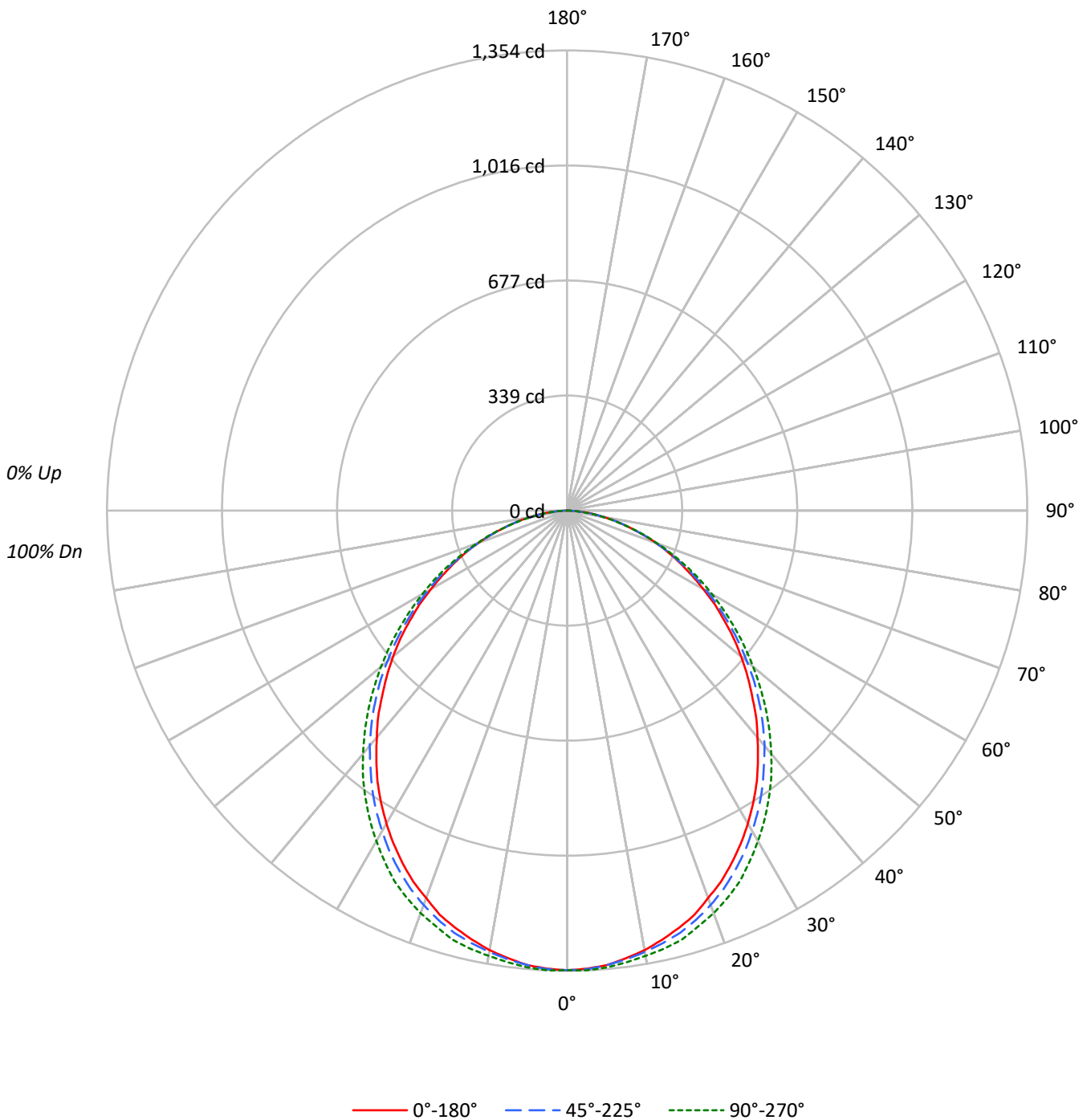
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3639	3639	3639
5°	3626	3626	3644
10°	3589	3603	3635
15°	3540	3583	3640
20°	3473	3537	3610
25°	3399	3470	3571
30°	3304	3383	3489
35°	3197	3286	3398
40°	3060	3173	3281
45°	2926	3043	3146
50°	2799	2892	2991
55°	2650	2730	2825
60°	2490	2554	2646
65°	2340	2383	2459
70°	2182	2182	2222
75°	1945	1945	1945
80°	1714	1661	1661
85°	1365	1312	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	3.7
10°-20°	362.6	10.6
20°-30°	538.7	15.8
30°-40°	625.2	18.3
40°-50°	615.6	18.0
50°-60°	520.9	15.3
60°-70°	371.5	10.9
70°-80°	199.6	5.9
80°-90°	50.3	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°	1028.8	30.2
0°-40°	1654.0	48.5
0°-60°	2790.5	81.8
0°-90°	3412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3412.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1342	1342	1342	1347	1349	127
15°	1271	1274	1286	1298	1306	358
25°	1145	1148	1169	1191	1203	527
35°	973	975	1000	1024	1034	607
45°	769	774	800	818	827	594
55°	565	566	582	597	602	506
65°	368	368	374	381	386	365
75°	187	185	187	187	187	201
85°	44	42	42	39	39	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1352.4	1352.4	1352.4	1352.4	1352.4
2.5°	1349.0	1349.0	1350.7	1352.4	1354.1
5°	1342.2	1342.2	1342.2	1347.3	1349.0
7.5°	1328.6	1330.3	1332.0	1337.1	1340.5
10°	1313.3	1315.0	1318.4	1326.9	1330.3
12.5°	1292.9	1298.0	1303.1	1315.0	1320.1
15°	1270.8	1274.2	1286.1	1298.0	1306.5
17.5°	1247.0	1248.7	1262.3	1279.3	1282.7
20°	1212.9	1218.0	1235.1	1252.1	1260.6
22.5°	1182.3	1185.7	1204.4	1226.6	1233.4
25°	1144.9	1148.3	1168.7	1190.8	1202.7
27.5°	1105.8	1109.2	1131.3	1155.1	1163.6
30°	1063.2	1066.6	1088.8	1114.3	1122.8
32.5°	1019.0	1022.4	1046.2	1068.3	1080.3
35°	973.1	974.8	1000.3	1024.1	1034.3
37.5°	922.0	927.1	951.0	974.8	986.7
40°	871.0	876.1	903.3	925.4	934.0
42.5°	823.4	830.2	852.3	872.7	881.2
45°	768.9	774.0	799.6	818.3	826.8
47.5°	719.6	724.7	746.8	765.5	770.6
50°	668.6	672.0	690.7	707.7	714.5
52.5°	617.5	619.2	636.2	653.3	658.4
55°	564.8	566.5	581.8	597.1	602.2
57.5°	515.5	515.5	529.1	541.0	546.1
60°	462.7	462.7	474.6	486.5	491.6
62.5°	413.4	413.4	425.3	433.8	440.6
65°	367.5	367.5	374.3	381.1	386.2
67.5°	323.2	318.1	324.9	333.4	331.7
70°	277.3	272.2	277.3	280.7	282.4
72.5°	231.4	228.0	231.4	233.1	236.5
75°	187.1	185.4	187.1	187.1	187.1
77.5°	149.7	144.6	148.0	146.3	144.6
80°	110.6	108.9	107.2	105.5	107.2
82.5°	76.6	74.9	74.9	71.4	71.4
85°	44.2	42.5	42.5	39.1	39.1
87.5°	17.0	17.0	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)