

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: P296427

Luminaire Tested: **22RLN-LD5-31-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296427
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-LD5-31-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3270.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

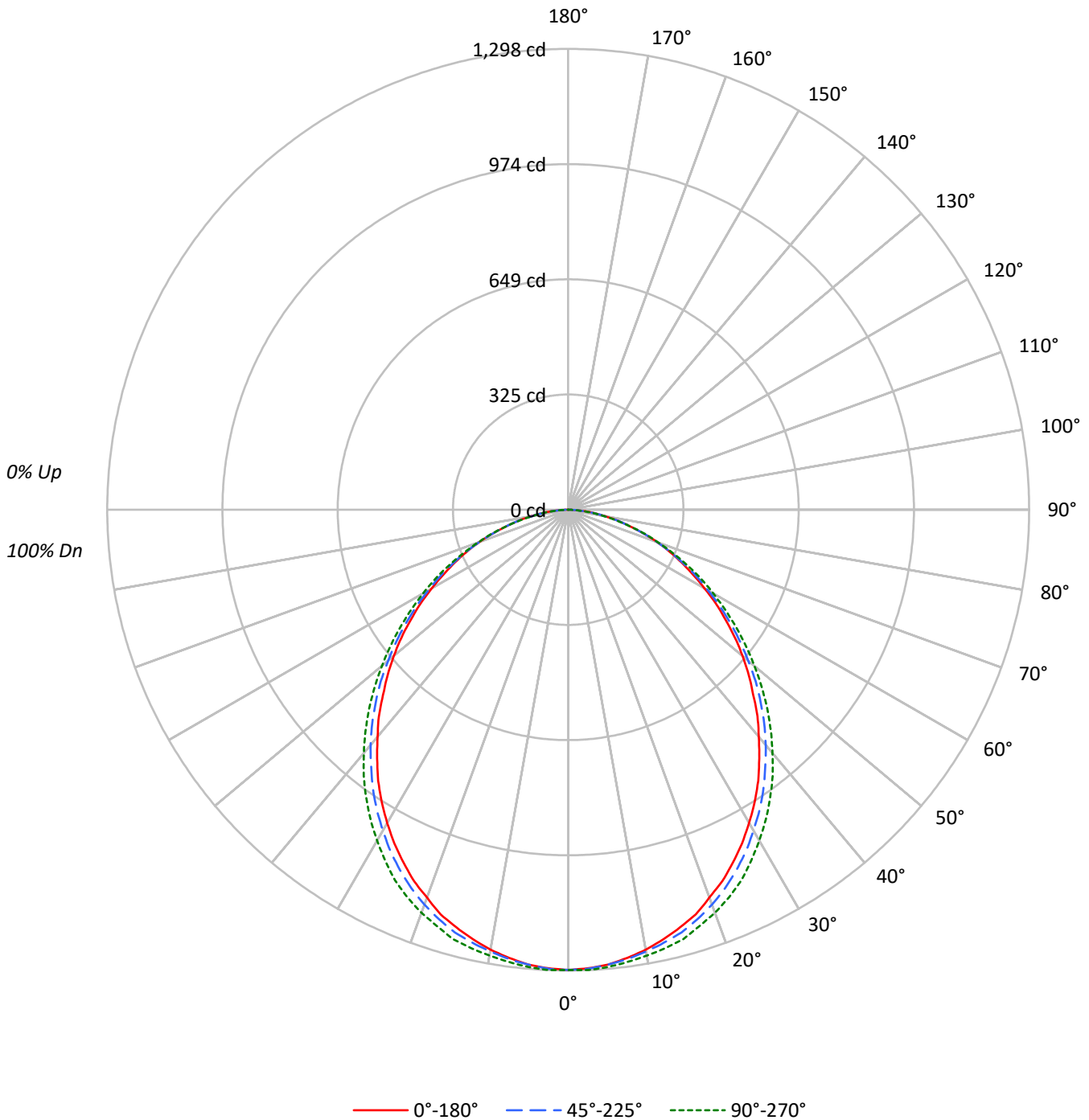
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3488	3488	3488
5°	3475	3475	3492
10°	3439	3453	3484
15°	3393	3434	3488
20°	3329	3390	3460
25°	3258	3326	3423
30°	3166	3242	3344
35°	3064	3149	3256
40°	2933	3041	3144
45°	2804	2916	3016
50°	2682	2771	2867
55°	2540	2616	2708
60°	2387	2448	2536
65°	2243	2284	2357
70°	2091	2091	2129
75°	1864	1864	1864
80°	1643	1592	1592
85°	1309	1260	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.7
10°-20°	347.5	10.6
20°-30°	516.3	15.8
30°-40°	599.2	18.3
40°-50°	589.9	18.0
50°-60°	499.3	15.3
60°-70°	356.1	10.9
70°-80°	191.3	5.9
80°-90°	48.2	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°	986.0	30.2
0°-40°	1585.2	48.5
0°-60°	2674.4	81.8
0°-90°	3270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1296	1296	1296	1296	1296	
5°	1286	1286	1286	1291	1293	122
15°	1218	1221	1233	1244	1252	343
25°	1097	1100	1120	1141	1153	505
35°	933	934	959	982	991	582
45°	737	742	766	784	792	570
55°	541	543	558	572	577	485
65°	352	352	359	365	370	349
75°	179	178	179	179	179	193
85°	42	41	41	38	38	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1292.9	1292.9	1294.5	1296.2	1297.8
5°	1286.4	1286.4	1286.4	1291.3	1292.9
7.5°	1273.3	1275.0	1276.6	1281.5	1284.7
10°	1258.7	1260.3	1263.5	1271.7	1275.0
12.5°	1239.1	1244.0	1248.9	1260.3	1265.2
15°	1217.9	1221.2	1232.6	1244.0	1252.1
17.5°	1195.1	1196.7	1209.7	1226.0	1229.3
20°	1162.5	1167.4	1183.7	1200.0	1208.1
22.5°	1133.1	1136.4	1154.3	1175.5	1182.0
25°	1097.2	1100.5	1120.1	1141.3	1152.7
27.5°	1059.8	1063.0	1084.2	1107.0	1115.2
30°	1019.0	1022.3	1043.4	1067.9	1076.1
32.5°	976.6	979.9	1002.7	1023.9	1035.3
35°	932.6	934.2	958.7	981.5	991.3
37.5°	883.7	888.6	911.4	934.2	945.6
40°	834.8	839.6	865.7	886.9	895.1
42.5°	789.1	795.6	816.8	836.4	844.5
45°	736.9	741.8	766.3	784.2	792.4
47.5°	689.7	694.5	715.7	733.7	738.6
50°	640.7	644.0	661.9	678.2	684.8
52.5°	591.8	593.5	609.8	626.1	631.0
55°	541.3	542.9	557.6	572.3	577.2
57.5°	494.0	494.0	507.0	518.5	523.4
60°	443.5	443.5	454.9	466.3	471.2
62.5°	396.2	396.2	407.6	415.7	422.3
65°	352.2	352.2	358.7	365.2	370.1
67.5°	309.8	304.9	311.4	319.6	317.9
70°	265.8	260.9	265.8	269.0	270.6
72.5°	221.7	218.5	221.7	223.4	226.6
75°	179.3	177.7	179.3	179.3	179.3
77.5°	143.5	138.6	141.8	140.2	138.6
80°	106.0	104.3	102.7	101.1	102.7
82.5°	73.4	71.7	71.7	68.5	68.5
85°	42.4	40.8	40.8	37.5	37.5
87.5°	16.3	16.3	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)