

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: P296379

Luminaire Tested: **22RLN-LD5-25-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296379
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-LD5-25-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2465.0 lumens
Efficiency: N/A
Efficacy: 130.6 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

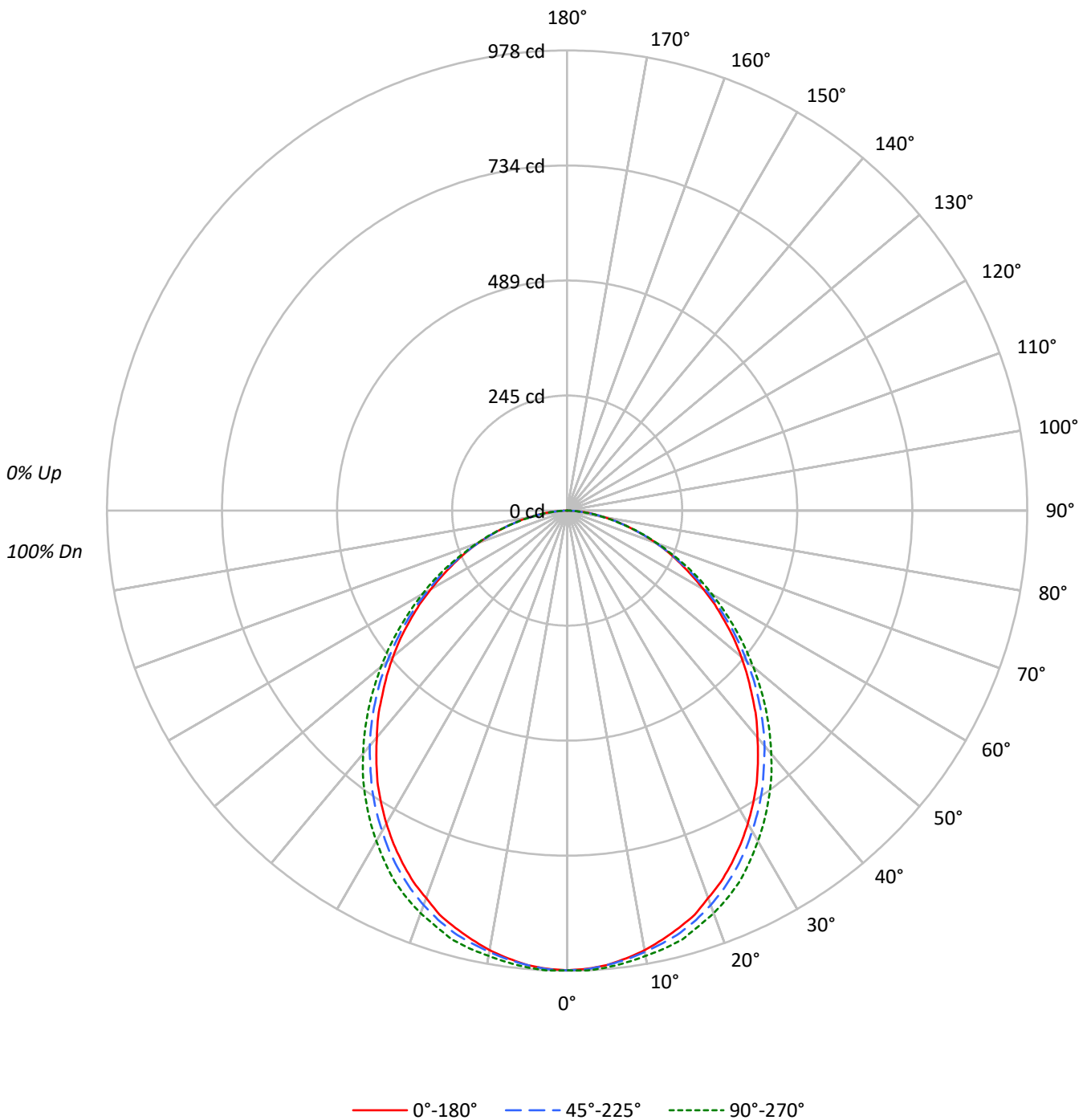
Input Watts (W): 18.879
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2629	2629	2629
5°	2619	2619	2633
10°	2593	2603	2626
15°	2558	2588	2630
20°	2509	2555	2608
25°	2456	2507	2580
30°	2387	2444	2521
35°	2309	2374	2455
40°	2211	2292	2370
45°	2114	2198	2273
50°	2022	2089	2161
55°	1914	1972	2041
60°	1799	1845	1912
65°	1691	1722	1777
70°	1576	1576	1605
75°	1406	1406	1406
80°	1238	1199	1199
85°	988	948	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.7
10°-20°	262.0	10.6
20°-30°	389.2	15.8
30°-40°	451.6	18.3
40°-50°	444.7	18.0
50°-60°	376.4	15.3
60°-70°	268.4	10.9
70°-80°	144.2	5.9
80°-90°	36.4	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°	743.3	30.2
0°-40°	1194.9	48.5
0°-60°	2016.0	81.8
0°-90°	2465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	977	977	977	977	977	
5°	970	970	970	973	975	92
15°	918	920	929	938	944	259
25°	827	830	844	860	869	381
35°	703	704	723	740	747	439
45°	556	559	578	591	597	429
55°	408	409	420	431	435	365
65°	266	266	270	275	279	263
75°	135	134	135	135	135	145
85°	32	31	31	28	28	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	977.1	977.1	977.1	977.1	977.1
2.5°	974.6	974.6	975.8	977.1	978.3
5°	969.7	969.7	969.7	973.4	974.6
7.5°	959.9	961.1	962.3	966.0	968.5
10°	948.8	950.0	952.5	958.6	961.1
12.5°	934.1	937.7	941.4	950.0	953.7
15°	918.1	920.5	929.1	937.7	943.9
17.5°	900.9	902.1	911.9	924.2	926.7
20°	876.3	880.0	892.3	904.6	910.7
22.5°	854.2	856.6	870.1	886.1	891.0
25°	827.1	829.6	844.3	860.3	868.9
27.5°	798.9	801.3	817.3	834.5	840.7
30°	768.1	770.6	786.6	805.0	811.2
32.5°	736.2	738.6	755.8	771.8	780.4
35°	703.0	704.2	722.7	739.9	747.2
37.5°	666.1	669.8	687.0	704.2	712.8
40°	629.3	632.9	652.6	668.6	674.7
42.5°	594.8	599.8	615.7	630.5	636.6
45°	555.5	559.2	577.6	591.2	597.3
47.5°	519.9	523.6	539.5	553.1	556.7
50°	483.0	485.5	499.0	511.3	516.2
52.5°	446.1	447.4	459.7	471.9	475.6
55°	408.0	409.3	420.3	431.4	435.1
57.5°	372.4	372.4	382.2	390.8	394.5
60°	334.3	334.3	342.9	351.5	355.2
62.5°	298.7	298.7	307.3	313.4	318.3
65°	265.5	265.5	270.4	275.3	279.0
67.5°	233.5	229.8	234.7	240.9	239.7
70°	200.3	196.6	200.3	202.8	204.0
72.5°	167.1	164.7	167.1	168.4	170.8
75°	135.2	134.0	135.2	135.2	135.2
77.5°	108.2	104.5	106.9	105.7	104.5
80°	79.9	78.7	77.4	76.2	77.4
82.5°	55.3	54.1	54.1	51.6	51.6
85°	32.0	30.7	30.7	28.3	28.3
87.5°	12.3	12.3	11.1	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)