

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: P296378

Luminaire Tested: **22RLN-LD5-25-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296378
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-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: 2329.0 lumens
Efficiency: N/A
Efficacy: 123.4 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

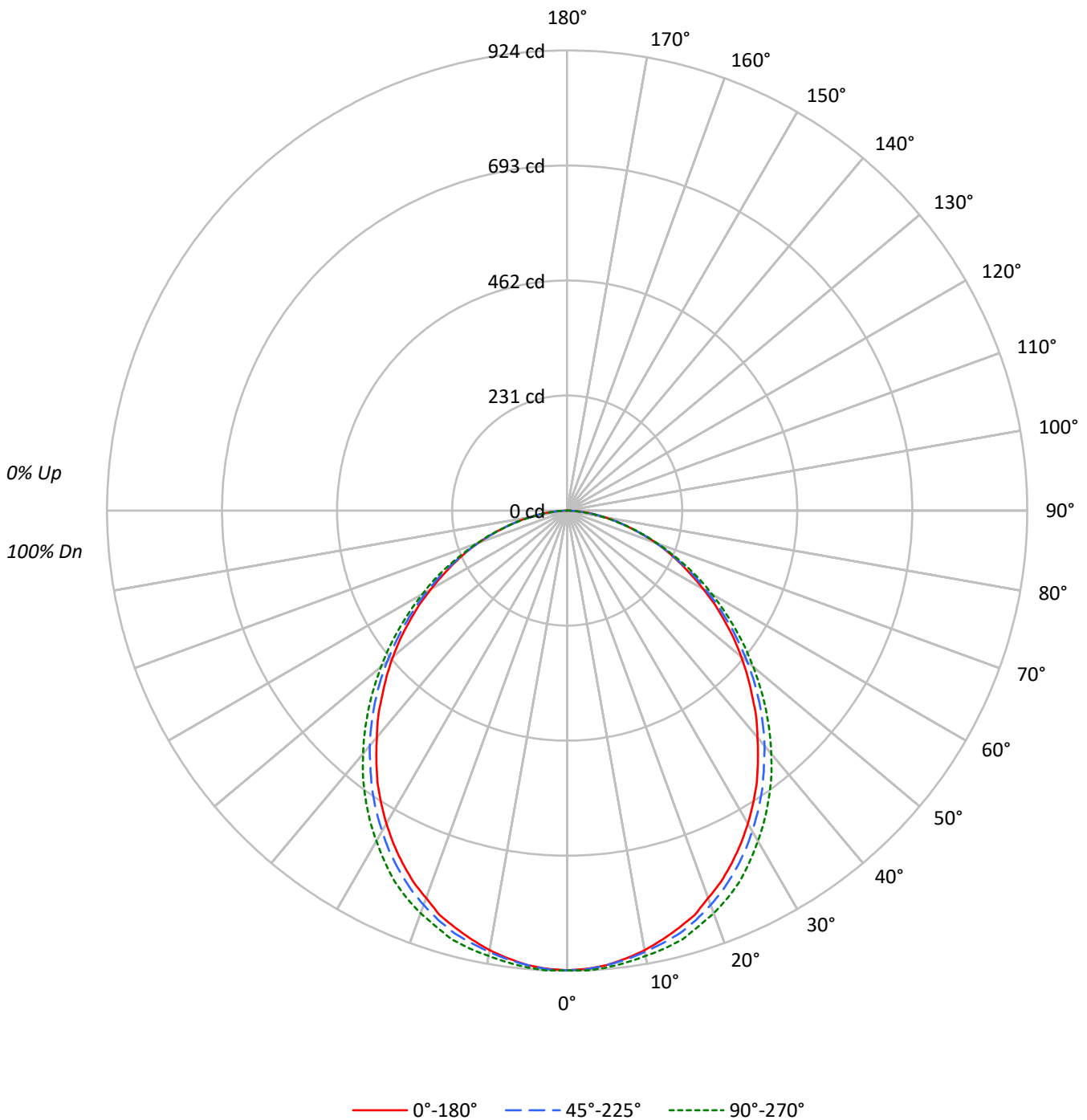
Input Watts (W): 18.879
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2484	2484	2484
5°	2475	2475	2487
10°	2450	2459	2481
15°	2416	2446	2484
20°	2371	2414	2464
25°	2320	2369	2438
30°	2255	2309	2381
35°	2182	2243	2319
40°	2088	2166	2239
45°	1998	2077	2148
50°	1911	1974	2042
55°	1809	1863	1929
60°	1700	1744	1806
65°	1597	1627	1678
70°	1489	1489	1517
75°	1328	1328	1328
80°	1170	1134	1134
85°	932	895	824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.7
10°-20°	247.5	10.6
20°-30°	367.7	15.8
30°-40°	426.7	18.3
40°-50°	420.2	18.0
50°-60°	355.6	15.3
60°-70°	253.6	10.9
70°-80°	136.3	5.9
80°-90°	34.4	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°	702.3	30.2
0°-40°	1129.0	48.5
0°-60°	1904.8	81.8
0°-90°	2329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	916	916	916	920	921	87
15°	867	870	878	886	892	244
25°	782	784	798	813	821	360
35°	664	665	683	699	706	414
45°	525	528	546	558	564	406
55°	386	387	397	408	411	345
65°	251	251	256	260	264	249
75°	128	127	128	128	128	137
85°	30	29	29	27	27	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.2	923.2	923.2	923.2	923.2
2.5°	920.8	920.8	922.0	923.2	924.3
5°	916.2	916.2	916.2	919.7	920.8
7.5°	906.9	908.1	909.2	912.7	915.0
10°	896.5	897.6	899.9	905.7	908.1
12.5°	882.5	886.0	889.5	897.6	901.1
15°	867.4	869.7	877.9	886.0	891.8
17.5°	851.2	852.3	861.6	873.2	875.6
20°	827.9	831.4	843.0	854.7	860.5
22.5°	807.0	809.4	822.1	837.2	841.9
25°	781.5	783.8	797.8	812.8	821.0
27.5°	754.8	757.1	772.2	788.5	794.3
30°	725.8	728.1	743.2	760.6	766.4
32.5°	695.6	697.9	714.1	729.2	737.4
35°	664.2	665.4	682.8	699.1	706.0
37.5°	629.4	632.9	649.1	665.4	673.5
40°	594.5	598.0	616.6	631.7	637.5
42.5°	562.0	566.7	581.8	595.7	601.5
45°	524.9	528.4	545.8	558.5	564.3
47.5°	491.2	494.7	509.8	522.5	526.0
50°	456.4	458.7	471.5	483.1	487.7
52.5°	421.5	422.7	434.3	445.9	449.4
55°	385.5	386.7	397.1	407.6	411.1
57.5°	351.8	351.8	361.1	369.3	372.7
60°	315.9	315.9	324.0	332.1	335.6
62.5°	282.2	282.2	290.3	296.1	300.8
65°	250.8	250.8	255.5	260.1	263.6
67.5°	220.6	217.1	221.8	227.6	226.4
70°	189.3	185.8	189.3	191.6	192.8
72.5°	157.9	155.6	157.9	159.1	161.4
75°	127.7	126.6	127.7	127.7	127.7
77.5°	102.2	98.7	101.0	99.9	98.7
80°	75.5	74.3	73.2	72.0	73.2
82.5°	52.3	51.1	51.1	48.8	48.8
85°	30.2	29.0	29.0	26.7	26.7
87.5°	11.6	11.6	10.5	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)