

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: P296004

Luminaire Tested: **24RLN-LD5-31-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-31-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2526.0 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

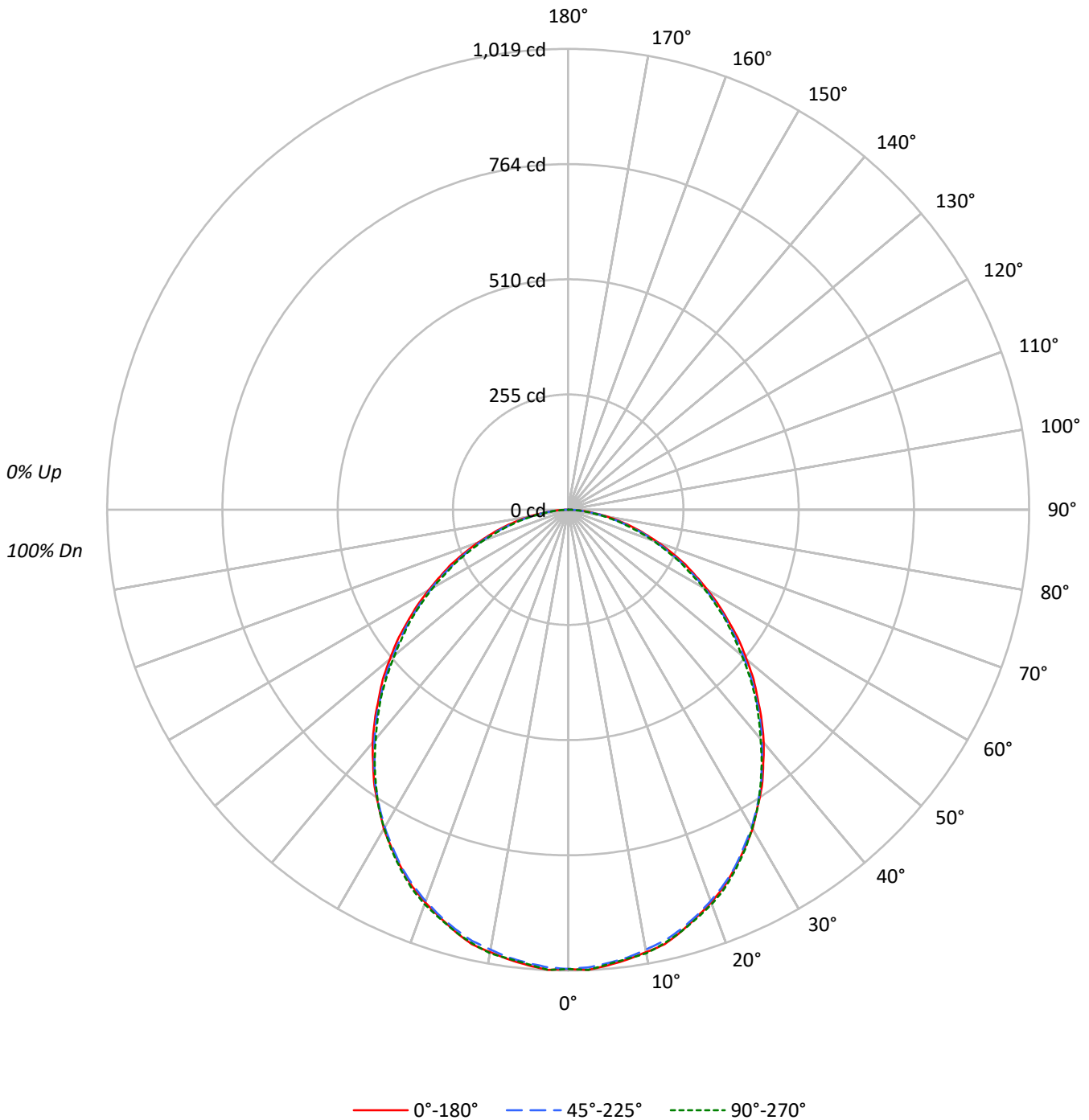
Input Watts (W): 21.018
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1366	1366	1366
5°	1366	1359	1363
10°	1357	1349	1361
15°	1345	1338	1345
20°	1323	1319	1329
25°	1297	1295	1302
30°	1266	1260	1264
35°	1226	1221	1218
40°	1181	1169	1162
45°	1127	1116	1112
50°	1076	1059	1047
55°	1019	1004	994
60°	958	941	930
65°	905	872	864
70°	830	798	782
75°	763	716	686
80°	669	625	587
85°	540	503	428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.8
10°-20°	271.6	10.8
20°-30°	401.8	15.9
30°-40°	463.7	18.4
40°-50°	452.9	17.9
50°-60°	382.4	15.1
60°-70°	272.4	10.8
70°-80°	147.5	5.8
80°-90°	38.1	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°	769.2	30.4
0°-40°	1232.8	48.8
0°-60°	2068.1	81.9
0°-90°	2526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1015	1015	1015	1015	1015	
5°	1011	1011	1006	1009	1009	96
15°	966	962	961	965	966	272
25°	874	869	872	875	877	402
35°	746	741	743	741	742	466
45°	592	588	587	584	584	458
55°	434	429	428	424	424	389
65°	284	279	274	271	271	280
75°	147	142	138	134	132	155
85°	35	34	33	28	28	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1015.4	1015.4	1015.4	1015.4	1015.4
2.5°	1018.6	1014.6	1012.9	1013.8	1018.6
5°	1011.3	1011.3	1006.4	1008.9	1008.9
7.5°	1003.2	1004.0	999.1	1003.2	1001.5
10°	993.4	990.9	987.7	994.2	995.8
12.5°	984.4	978.7	977.1	981.2	982.0
15°	965.7	961.6	960.8	964.9	965.7
17.5°	944.5	945.3	942.0	947.7	946.9
20°	924.1	922.5	920.9	927.4	928.2
22.5°	901.3	896.4	898.0	903.7	905.4
25°	873.6	868.7	872.0	875.2	876.8
27.5°	844.2	841.8	841.0	845.1	846.7
30°	814.9	810.8	810.8	815.7	813.3
32.5°	779.1	775.8	777.4	779.1	779.9
35°	746.5	740.8	743.2	740.8	741.6
37.5°	708.2	704.1	703.3	702.5	702.5
40°	672.3	669.0	665.8	665.8	661.7
42.5°	633.2	629.1	627.5	625.0	622.6
45°	592.4	587.6	586.7	584.3	584.3
47.5°	555.8	548.4	547.6	542.7	542.7
50°	514.2	509.3	506.1	502.8	500.4
52.5°	476.7	471.8	466.9	463.7	461.2
55°	434.3	428.6	427.8	423.8	423.8
57.5°	396.0	391.2	387.9	383.0	383.8
60°	356.1	351.2	349.6	345.5	345.5
62.5°	318.6	314.6	312.1	308.0	304.8
65°	284.4	278.7	273.8	270.6	271.4
67.5°	246.9	240.4	238.0	234.7	232.2
70°	211.1	207.0	202.9	198.8	198.8
72.5°	177.7	173.6	171.1	166.2	164.6
75°	146.7	141.8	137.7	134.5	132.0
77.5°	115.7	110.8	108.4	104.3	104.3
80°	86.4	83.1	80.7	79.0	75.8
82.5°	59.5	57.9	55.4	53.0	50.5
85°	35.0	34.2	32.6	28.5	27.7
87.5°	13.9	13.9	12.2	11.4	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)