

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: P296008

Luminaire Tested: **24RLN-LD5-31-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296008
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2866.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

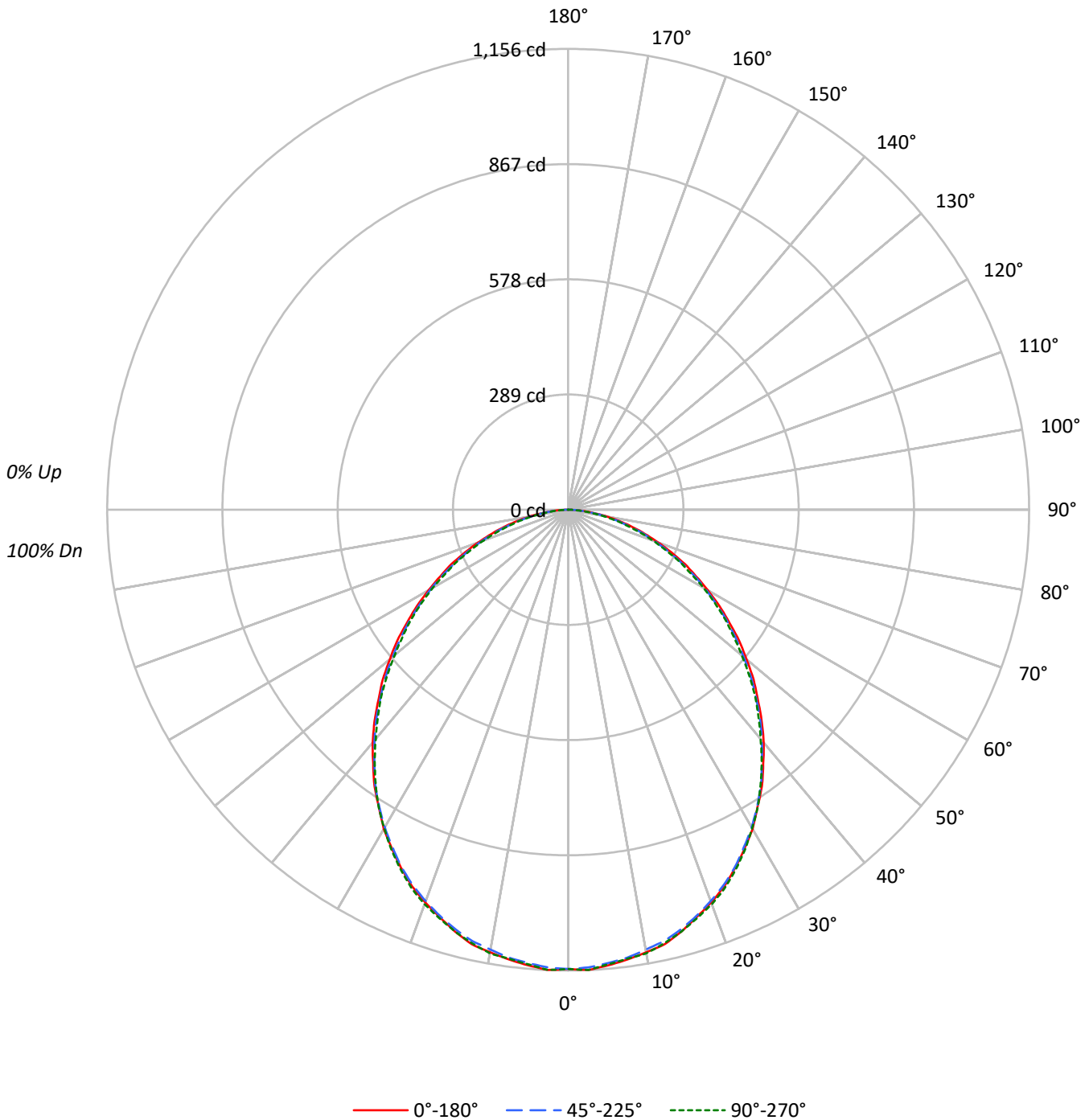
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1550	1550	1550
5°	1550	1542	1546
10°	1540	1531	1544
15°	1526	1518	1526
20°	1501	1496	1508
25°	1472	1469	1477
30°	1436	1429	1434
35°	1391	1385	1382
40°	1340	1327	1319
45°	1279	1267	1261
50°	1221	1202	1188
55°	1156	1139	1128
60°	1087	1068	1055
65°	1027	989	980
70°	942	906	887
75°	865	813	779
80°	759	709	666
85°	614	571	485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.8
10°-20°	308.2	10.8
20°-30°	455.8	15.9
30°-40°	526.1	18.4
40°-50°	513.8	17.9
50°-60°	433.9	15.1
60°-70°	309.0	10.8
70°-80°	167.3	5.8
80°-90°	43.2	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°	872.7	30.4
0°-40°	1398.8	48.8
0°-60°	2346.4	81.9
0°-90°	2866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1152	1152	1152	1152	1152	
5°	1147	1147	1142	1145	1145	109
15°	1096	1091	1090	1095	1096	309
25°	991	986	989	993	995	456
35°	847	840	843	840	841	529
45°	672	667	666	663	663	520
55°	493	486	485	481	481	442
65°	323	316	311	307	308	318
75°	166	161	156	153	150	176
85°	40	39	37	32	31	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1152.1	1152.1	1152.1	1152.1	1152.1
2.5°	1155.7	1151.1	1149.3	1150.2	1155.7
5°	1147.4	1147.4	1141.9	1144.7	1144.7
7.5°	1138.2	1139.1	1133.6	1138.2	1136.3
10°	1127.1	1124.3	1120.6	1128.0	1129.9
12.5°	1116.9	1110.4	1108.6	1113.2	1114.1
15°	1095.6	1091.0	1090.1	1094.7	1095.6
17.5°	1071.6	1072.5	1068.8	1075.3	1074.4
20°	1048.5	1046.6	1044.8	1052.2	1053.1
22.5°	1022.6	1017.1	1018.9	1025.4	1027.2
25°	991.2	985.6	989.3	993.0	994.9
27.5°	957.9	955.1	954.2	958.8	960.7
30°	924.6	920.0	920.0	925.5	922.7
32.5°	883.9	880.2	882.1	883.9	884.8
35°	846.9	840.5	843.2	840.5	841.4
37.5°	803.5	798.9	797.9	797.0	797.0
40°	762.8	759.1	755.4	755.4	750.8
42.5°	718.4	713.8	711.9	709.2	706.4
45°	672.2	666.6	665.7	662.9	662.9
47.5°	630.6	622.3	621.3	615.8	615.8
50°	583.4	577.9	574.2	570.5	567.7
52.5°	540.9	535.3	529.8	526.1	523.3
55°	492.8	486.3	485.4	480.8	480.8
57.5°	449.4	443.8	440.1	434.6	435.5
60°	404.0	398.5	396.7	392.0	392.0
62.5°	361.5	356.9	354.1	349.5	345.8
65°	322.7	316.2	310.7	307.0	307.9
67.5°	280.2	272.8	270.0	266.3	263.5
70°	239.5	234.8	230.2	225.6	225.6
72.5°	201.6	196.9	194.2	188.6	186.8
75°	166.4	160.9	156.3	152.6	149.8
77.5°	131.3	125.7	123.0	118.3	118.3
80°	98.0	94.3	91.5	89.7	86.0
82.5°	67.5	65.6	62.9	60.1	57.3
85°	39.8	38.8	37.0	32.4	31.4
87.5°	15.7	15.7	13.9	12.9	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)