

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: P295863

Luminaire Tested: **24RLN-LD5-31-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295863
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-L82765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2845.0 lumens
Efficiency: N/A
Efficacy: 134.2 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

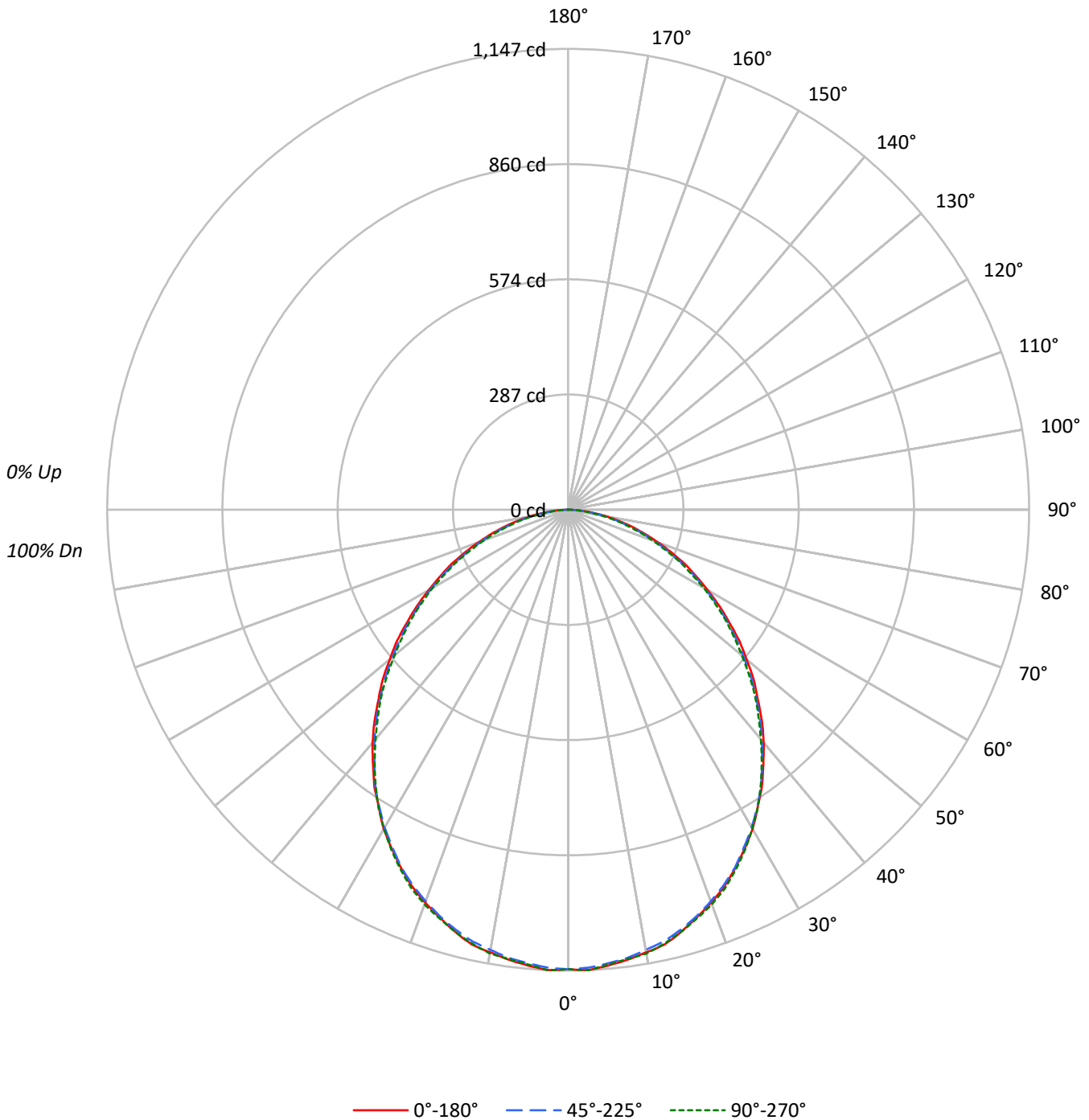
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1539	1539	1539
5°	1538	1531	1535
10°	1529	1520	1532
15°	1515	1507	1515
20°	1490	1485	1497
25°	1461	1458	1466
30°	1426	1419	1423
35°	1381	1375	1372
40°	1330	1317	1309
45°	1270	1257	1252
50°	1212	1193	1180
55°	1148	1130	1120
60°	1079	1059	1047
65°	1020	982	973
70°	935	899	881
75°	859	806	773
80°	754	704	662
85°	610	567	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	3.8
10°-20°	305.9	10.8
20°-30°	452.5	15.9
30°-40°	522.2	18.4
40°-50°	510.1	17.9
50°-60°	430.7	15.1
60°-70°	306.8	10.8
70°-80°	166.1	5.8
80°-90°	42.9	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°	866.3	30.4
0°-40°	1388.5	48.8
0°-60°	2329.3	81.9
0°-90°	2845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1139	1139	1134	1136	1136	108
15°	1088	1083	1082	1087	1088	306
25°	984	978	982	986	988	453
35°	841	834	837	834	835	525
45°	667	662	661	658	658	516
55°	489	483	482	477	477	439
65°	320	314	308	305	306	316
75°	165	160	155	151	149	175
85°	40	38	37	32	31	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.6	1143.6	1143.6	1143.6	1143.6
2.5°	1147.3	1142.7	1140.9	1141.8	1147.3
5°	1139.0	1139.0	1133.5	1136.3	1136.3
7.5°	1129.8	1130.8	1125.3	1129.8	1128.0
10°	1118.8	1116.1	1112.4	1119.7	1121.6
12.5°	1108.7	1102.3	1100.5	1105.1	1106.0
15°	1087.6	1083.0	1082.1	1086.7	1087.6
17.5°	1063.8	1064.7	1061.0	1067.4	1066.5
20°	1040.8	1039.0	1037.1	1044.5	1045.4
22.5°	1015.1	1009.6	1011.4	1017.9	1019.7
25°	983.9	978.4	982.1	985.7	987.6
27.5°	950.9	948.1	947.2	951.8	953.6
30°	917.8	913.2	913.2	918.7	916.0
32.5°	877.4	873.8	875.6	877.4	878.4
35°	840.7	834.3	837.1	834.3	835.2
37.5°	797.6	793.0	792.1	791.2	791.2
40°	757.2	753.5	749.9	749.9	745.3
42.5°	713.1	708.6	706.7	704.0	701.2
45°	667.3	661.8	660.8	658.1	658.1
47.5°	626.0	617.7	616.8	611.3	611.3
50°	579.1	573.6	570.0	566.3	563.5
52.5°	536.9	531.4	525.9	522.2	519.5
55°	489.2	482.8	481.9	477.3	477.3
57.5°	446.1	440.6	436.9	431.4	432.3
60°	401.1	395.6	393.7	389.2	389.2
62.5°	358.9	354.3	351.5	346.9	343.3
65°	320.3	313.9	308.4	304.7	305.6
67.5°	278.1	270.8	268.0	264.3	261.6
70°	237.7	233.1	228.5	223.9	223.9
72.5°	200.1	195.5	192.7	187.2	185.4
75°	165.2	159.7	155.1	151.4	148.7
77.5°	130.3	124.8	122.1	117.5	117.5
80°	97.3	93.6	90.9	89.0	85.4
82.5°	67.0	65.2	62.4	59.7	56.9
85°	39.5	38.5	36.7	32.1	31.2
87.5°	15.6	15.6	13.8	12.8	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)