

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: P295955

Luminaire Tested: **24RLN-LD5-31-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295955
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-L93050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2846.0 lumens
Efficiency: N/A
Efficacy: 130.8 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

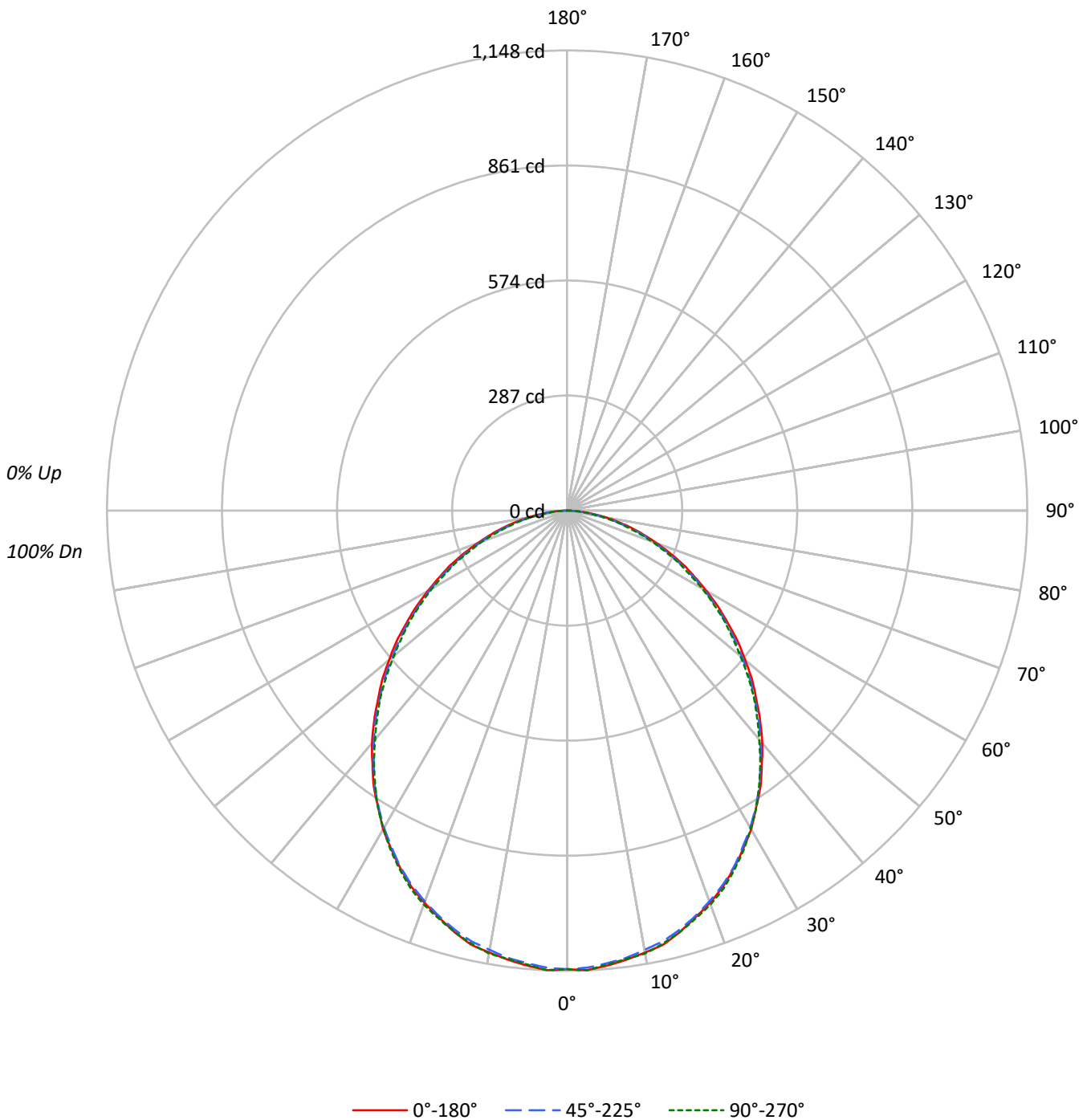
Input Watts (W): 21.762
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1539	1531	1535
10°	1529	1520	1533
15°	1516	1508	1516
20°	1491	1486	1497
25°	1461	1458	1467
30°	1426	1419	1424
35°	1381	1375	1372
40°	1330	1317	1309
45°	1270	1258	1253
50°	1213	1194	1180
55°	1148	1131	1120
60°	1080	1060	1048
65°	1020	982	973
70°	935	899	881
75°	859	807	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°	306.0	10.8
20°-30°	452.6	15.9
30°-40°	522.4	18.4
40°-50°	510.2	17.9
50°-60°	430.8	15.1
60°-70°	306.9	10.8
70°-80°	166.2	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°	866.6	30.4
0°-40°	1389.0	48.8
0°-60°	2330.1	81.9
0°-90°	2846.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1139	1139	1134	1137	1137	108
15°	1088	1083	1082	1087	1088	306
25°	984	979	982	986	988	453
35°	841	835	837	835	836	525
45°	668	662	661	658	658	516
55°	489	483	482	477	477	439
65°	320	314	308	305	306	316
75°	165	160	155	152	149	175
85°	40	39	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°	1144.0	1144.0	1144.0	1144.0	1144.0
2.5°	1147.7	1143.1	1141.3	1142.2	1147.7
5°	1139.4	1139.4	1133.9	1136.7	1136.7
7.5°	1130.2	1131.2	1125.6	1130.2	1128.4
10°	1119.2	1116.5	1112.8	1120.1	1122.0
12.5°	1109.1	1102.7	1100.9	1105.4	1106.4
15°	1088.0	1083.4	1082.5	1087.1	1088.0
17.5°	1064.1	1065.1	1061.4	1067.8	1066.9
20°	1041.2	1039.3	1037.5	1044.9	1045.8
22.5°	1015.5	1010.0	1011.8	1018.2	1020.1
25°	984.3	978.7	982.4	986.1	987.9
27.5°	951.2	948.4	947.5	952.1	954.0
30°	918.1	913.6	913.6	919.1	916.3
32.5°	877.7	874.1	875.9	877.7	878.7
35°	841.0	834.6	837.3	834.6	835.5
37.5°	797.9	793.3	792.4	791.4	791.4
40°	757.5	753.8	750.1	750.1	745.5
42.5°	713.4	708.8	707.0	704.2	701.5
45°	667.5	662.0	661.1	658.3	658.3
47.5°	626.2	617.9	617.0	611.5	611.5
50°	579.4	573.8	570.2	566.5	563.7
52.5°	537.1	531.6	526.1	522.4	519.7
55°	489.4	482.9	482.0	477.4	477.4
57.5°	446.2	440.7	437.0	431.5	432.4
60°	401.2	395.7	393.9	389.3	389.3
62.5°	359.0	354.4	351.7	347.1	343.4
65°	320.4	314.0	308.5	304.8	305.7
67.5°	278.2	270.9	268.1	264.4	261.7
70°	237.8	233.2	228.6	224.0	224.0
72.5°	200.2	195.6	192.8	187.3	185.5
75°	165.3	159.8	155.2	151.5	148.7
77.5°	130.4	124.9	122.1	117.5	117.5
80°	97.3	93.7	90.9	89.1	85.4
82.5°	67.0	65.2	62.4	59.7	56.9
85°	39.5	38.6	36.7	32.1	31.2
87.5°	15.6	15.6	13.8	12.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)