

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: P295958

Luminaire Tested: **24RLN-LD5-36-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295958
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-LD5-36-UNV-L93050-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: 2858.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

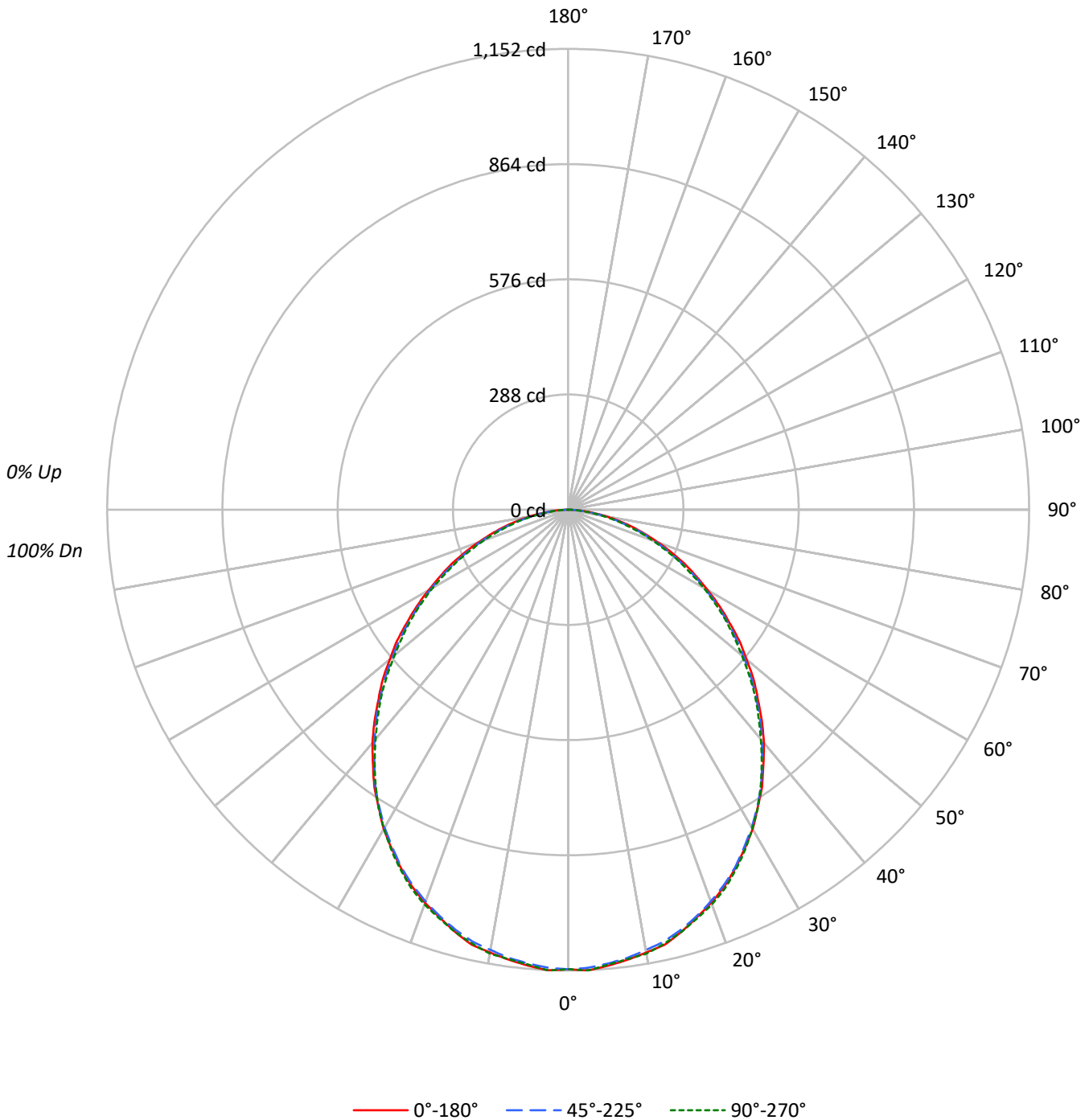
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1546	1546	1546
5°	1545	1538	1542
10°	1536	1527	1539
15°	1522	1514	1522
20°	1497	1492	1504
25°	1467	1465	1473
30°	1432	1425	1430
35°	1387	1381	1378
40°	1336	1323	1315
45°	1275	1263	1258
50°	1218	1199	1185
55°	1153	1136	1125
60°	1084	1064	1052
65°	1025	986	977
70°	939	903	885
75°	863	810	777
80°	757	707	664
85°	611	570	483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.8
10°-20°	307.3	10.8
20°-30°	454.6	15.9
30°-40°	524.6	18.4
40°-50°	512.4	17.9
50°-60°	432.7	15.1
60°-70°	308.2	10.8
70°-80°	166.9	5.8
80°-90°	43.1	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°	870.3	30.4
0°-40°	1394.9	48.8
0°-60°	2339.9	81.9
0°-90°	2858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2858.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1144	1144	1139	1142	1142	109
15°	1093	1088	1087	1092	1093	308
25°	988	983	987	990	992	455
35°	845	838	841	838	839	527
45°	670	665	664	661	661	518
55°	491	485	484	479	479	441
65°	322	315	310	306	307	317
75°	166	160	156	152	149	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°	1148.8	1148.8	1148.8	1148.8	1148.8
2.5°	1152.5	1147.9	1146.1	1147.0	1152.5
5°	1144.2	1144.2	1138.7	1141.5	1141.5
7.5°	1135.0	1135.9	1130.4	1135.0	1133.2
10°	1123.9	1121.2	1117.5	1124.9	1126.7
12.5°	1113.8	1107.3	1105.5	1110.1	1111.0
15°	1092.6	1088.0	1087.1	1091.7	1092.6
17.5°	1068.6	1069.5	1065.9	1072.3	1071.4
20°	1045.6	1043.7	1041.9	1049.3	1050.2
22.5°	1019.8	1014.2	1016.1	1022.5	1024.4
25°	988.4	982.9	986.6	990.2	992.1
27.5°	955.2	952.4	951.5	956.1	958.0
30°	922.0	917.4	917.4	922.9	920.2
32.5°	881.4	877.8	879.6	881.4	882.4
35°	844.6	838.1	840.9	838.1	839.0
37.5°	801.2	796.6	795.7	794.8	794.8
40°	760.7	757.0	753.3	753.3	748.7
42.5°	716.4	711.8	710.0	707.2	704.4
45°	670.3	664.8	663.9	661.1	661.1
47.5°	628.8	620.5	619.6	614.1	614.1
50°	581.8	576.3	572.6	568.9	566.1
52.5°	539.4	533.8	528.3	524.6	521.9
55°	491.4	485.0	484.1	479.4	479.4
57.5°	448.1	442.6	438.9	433.3	434.3
60°	402.9	397.4	395.5	390.9	390.9
62.5°	360.5	355.9	353.1	348.5	344.8
65°	321.8	315.3	309.8	306.1	307.0
67.5°	279.4	272.0	269.2	265.5	262.8
70°	238.8	234.2	229.6	225.0	225.0
72.5°	201.0	196.4	193.6	188.1	186.2
75°	166.0	160.4	155.8	152.1	149.4
77.5°	130.9	125.4	122.6	118.0	118.0
80°	97.7	94.0	91.3	89.4	85.7
82.5°	67.3	65.5	62.7	59.9	57.2
85°	39.6	38.7	36.9	32.3	31.3
87.5°	15.7	15.7	13.8	12.9	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)