

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: P296311

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3072.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

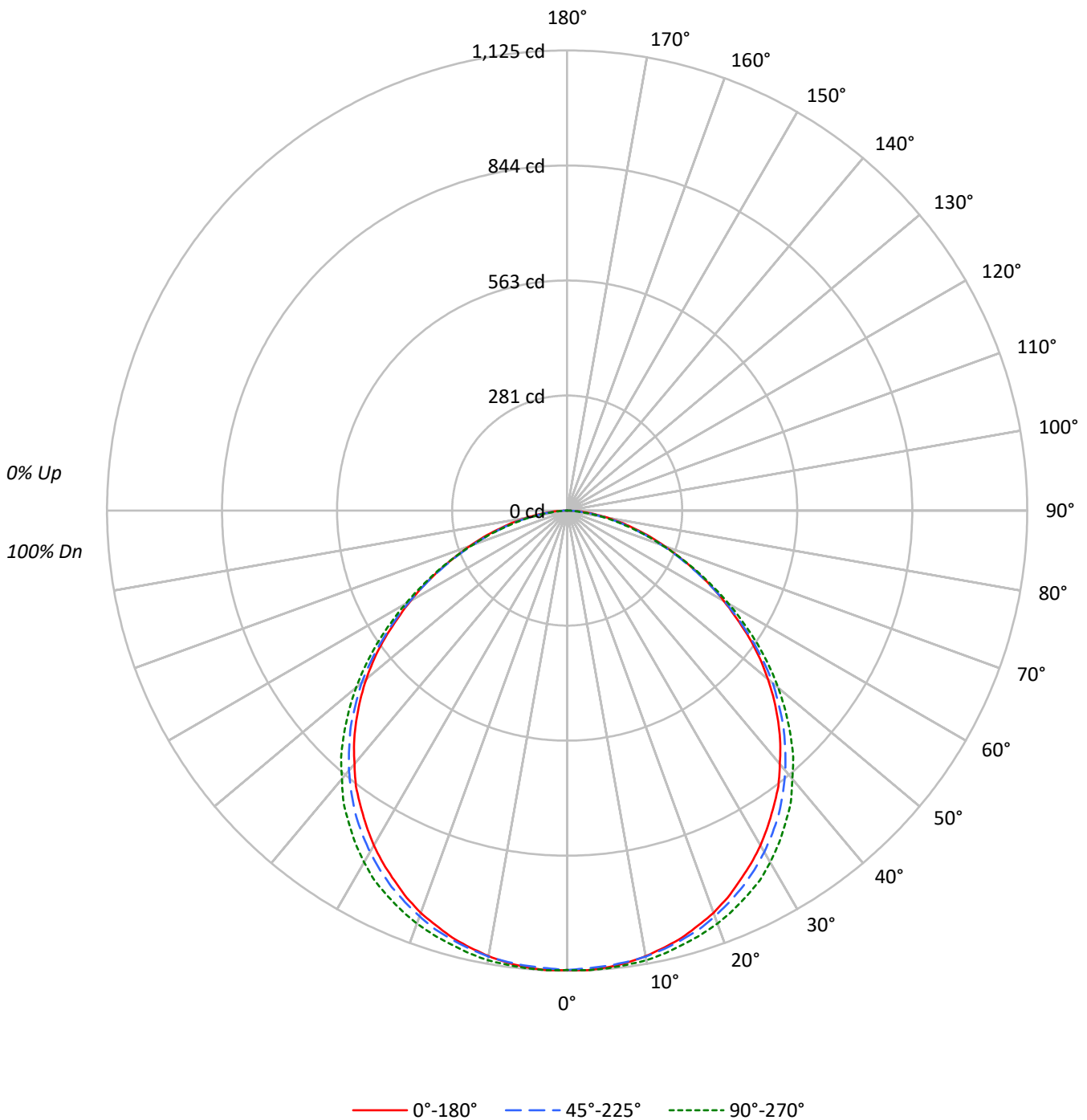
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1512	1512	1512
5°	1514	1509	1517
10°	1511	1513	1525
15°	1506	1513	1529
20°	1498	1512	1539
25°	1483	1507	1543
30°	1468	1497	1543
35°	1447	1484	1530
40°	1421	1457	1505
45°	1388	1424	1468
50°	1342	1373	1410
55°	1277	1293	1331
60°	1192	1198	1229
65°	1095	1087	1113
70°	995	967	972
75°	884	836	830
80°	768	687	668
85°	630	486	378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.5
10°-20°	307.2	10.0
20°-30°	468.8	15.3
30°-40°	565.2	18.4
40°-50°	576.4	18.8
50°-60°	493.3	16.1
60°-70°	339.8	11.1
70°-80°	174.2	5.7
80°-90°	40.6	1.3
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°	882.5	28.7
0°-40°	1447.8	47.1
0°-60°	2517.5	81.9
0°-90°	3072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3072.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1123	1123	1123	1123	1123	
5°	1121	1119	1118	1121	1123	107
15°	1082	1080	1086	1094	1098	305
25°	999	1002	1015	1032	1040	461
35°	881	884	903	923	931	551
45°	730	731	748	767	772	562
55°	544	541	551	563	568	486
65°	344	336	342	344	350	342
75°	170	163	161	161	160	183
85°	41	36	32	28	24	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.4	1123.4	1123.4	1123.4	1123.4
2.5°	1124.6	1122.3	1119.9	1122.3	1124.6
5°	1121.1	1118.8	1117.6	1121.1	1123.4
7.5°	1115.3	1113.0	1113.0	1117.6	1119.9
10°	1106.0	1104.8	1107.1	1111.8	1116.4
12.5°	1094.3	1094.3	1097.8	1103.6	1108.3
15°	1081.5	1080.3	1086.1	1094.3	1097.8
17.5°	1064.0	1065.2	1073.3	1082.7	1087.3
20°	1046.5	1047.7	1055.8	1068.7	1074.5
22.5°	1024.4	1026.7	1036.0	1052.4	1058.2
25°	998.7	1002.2	1015.1	1032.5	1039.5
27.5°	973.1	976.6	990.6	1010.4	1019.7
30°	945.1	949.8	963.8	984.8	992.9
32.5°	913.7	917.2	934.6	955.6	963.8
35°	881.0	884.5	903.2	923.0	931.2
37.5°	848.4	848.4	867.1	890.4	898.5
40°	808.8	810.0	829.8	851.9	856.6
42.5°	771.5	771.5	789.0	810.0	818.1
45°	729.5	730.7	748.2	766.8	771.5
47.5°	686.4	686.4	701.6	719.0	723.7
50°	641.0	638.6	656.1	670.1	673.6
52.5°	594.4	590.9	604.8	616.5	621.2
55°	544.2	540.7	551.2	562.9	567.5
57.5°	491.8	487.1	498.8	509.3	511.6
60°	442.9	435.9	445.2	451.0	456.8
62.5°	393.9	385.7	392.7	396.2	400.9
65°	343.8	335.6	341.5	343.8	349.6
67.5°	296.0	290.2	291.3	294.8	297.2
70°	252.9	245.9	245.9	245.9	247.1
72.5°	213.3	202.8	201.6	202.8	202.8
75°	170.1	163.2	160.8	160.8	159.7
77.5°	136.4	127.0	125.9	123.5	121.2
80°	99.1	90.9	88.6	87.4	86.2
82.5°	68.8	61.8	59.4	57.1	53.6
85°	40.8	36.1	31.5	28.0	24.5
87.5°	15.2	14.0	11.7	10.5	10.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)