

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: P296310

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296310
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2955.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

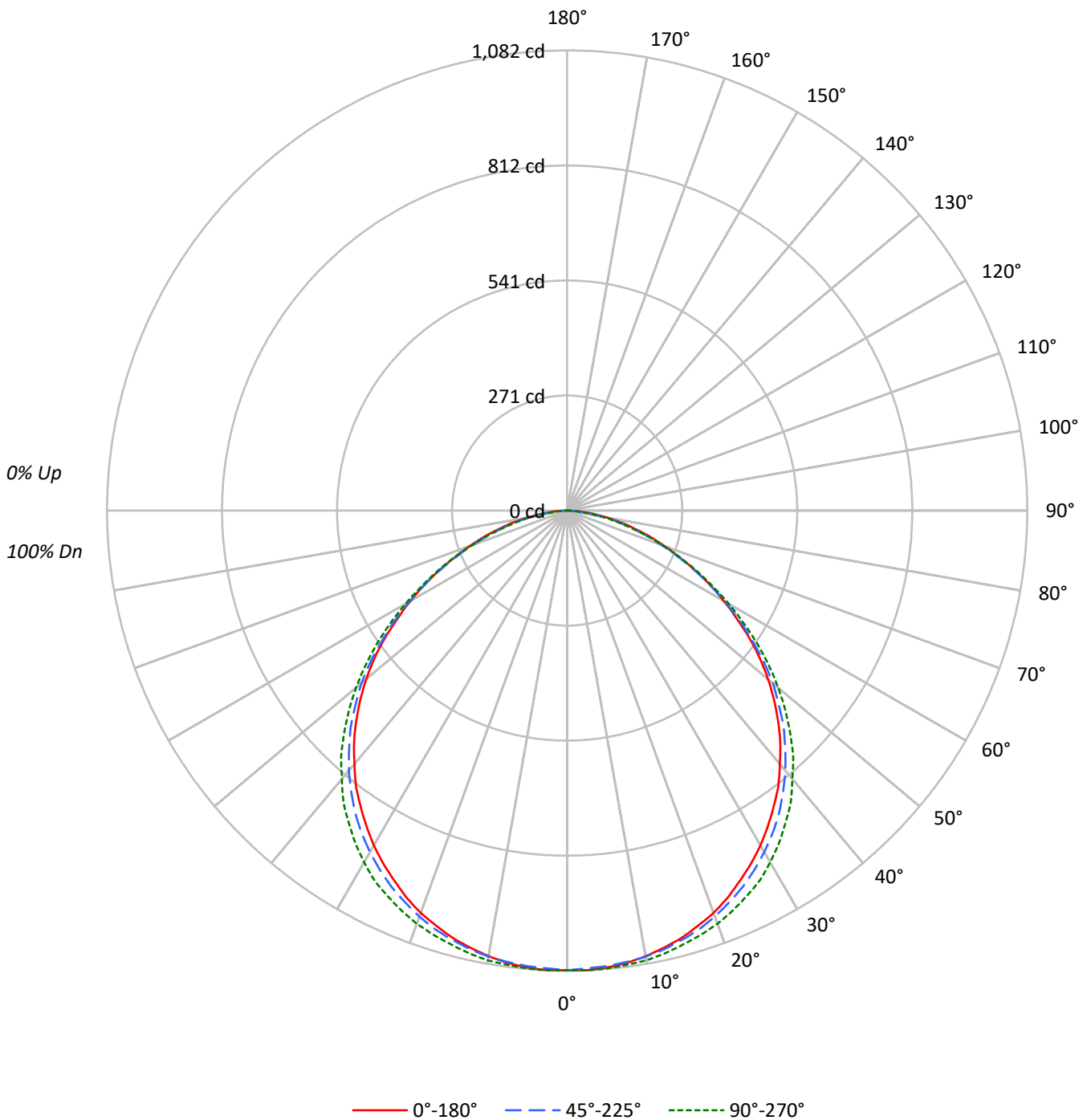
Input Watts (W): 31.434
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1454	1454	1454
5°	1457	1452	1460
10°	1453	1455	1467
15°	1449	1455	1471
20°	1441	1454	1480
25°	1426	1450	1484
30°	1412	1440	1484
35°	1392	1427	1471
40°	1366	1402	1447
45°	1335	1369	1412
50°	1291	1321	1356
55°	1228	1244	1281
60°	1146	1152	1182
65°	1053	1046	1071
70°	957	930	935
75°	851	804	799
80°	738	660	643
85°	605	468	363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	3.5
10°-20°	295.5	10.0
20°-30°	451.0	15.3
30°-40°	543.7	18.4
40°-50°	554.4	18.8
50°-60°	474.5	16.1
60°-70°	326.9	11.1
70°-80°	167.6	5.7
80°-90°	39.0	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°	848.9	28.7
0°-40°	1392.6	47.1
0°-60°	2421.6	81.9
0°-90°	2955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1081	1081	1081	1081	1081	
5°	1078	1076	1075	1078	1081	102
15°	1040	1039	1045	1053	1056	293
25°	961	964	976	993	1000	443
35°	848	851	869	888	896	530
45°	702	703	720	738	742	541
55°	524	520	530	541	546	467
65°	331	323	328	331	336	329
75°	164	157	155	155	154	176
85°	39	35	30	27	24	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1080.7	1080.7	1080.7	1080.7	1080.7
2.5°	1081.8	1079.5	1077.3	1079.5	1081.8
5°	1078.4	1076.2	1075.0	1078.4	1080.7
7.5°	1072.8	1070.6	1070.6	1075.0	1077.3
10°	1063.8	1062.7	1065.0	1069.4	1073.9
12.5°	1052.6	1052.6	1056.0	1061.6	1066.1
15°	1040.3	1039.2	1044.8	1052.6	1056.0
17.5°	1023.5	1024.6	1032.5	1041.4	1045.9
20°	1006.7	1007.8	1015.6	1028.0	1033.6
22.5°	985.4	987.6	996.6	1012.3	1017.9
25°	960.7	964.1	976.4	993.2	999.9
27.5°	936.0	939.4	952.9	971.9	980.9
30°	909.1	913.6	927.1	947.3	955.1
32.5°	878.9	882.2	899.1	919.2	927.1
35°	847.5	850.8	868.8	887.8	895.7
37.5°	816.1	816.1	834.0	856.5	864.3
40°	778.0	779.1	798.2	819.5	823.9
42.5°	742.1	742.1	758.9	779.1	786.9
45°	701.8	702.9	719.7	737.6	742.1
47.5°	660.3	660.3	674.8	691.7	696.1
50°	616.6	614.3	631.1	644.6	647.9
52.5°	571.7	568.4	581.8	593.0	597.5
55°	523.5	520.1	530.2	541.4	545.9
57.5°	473.1	468.6	479.8	489.9	492.1
60°	426.0	419.3	428.2	433.8	439.4
62.5°	378.9	371.1	377.8	381.1	385.6
65°	330.7	322.9	328.5	330.7	336.3
67.5°	284.7	279.1	280.3	283.6	285.9
70°	243.3	236.5	236.5	236.5	237.7
72.5°	205.1	195.1	193.9	195.1	195.1
75°	163.7	156.9	154.7	154.7	153.6
77.5°	131.2	122.2	121.1	118.8	116.6
80°	95.3	87.4	85.2	84.1	83.0
82.5°	66.1	59.4	57.2	54.9	51.6
85°	39.2	34.8	30.3	26.9	23.5
87.5°	14.6	13.5	11.2	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)