

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: P296321

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296321
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-LD5-50-RDP-UNV-L92765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 101.0 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

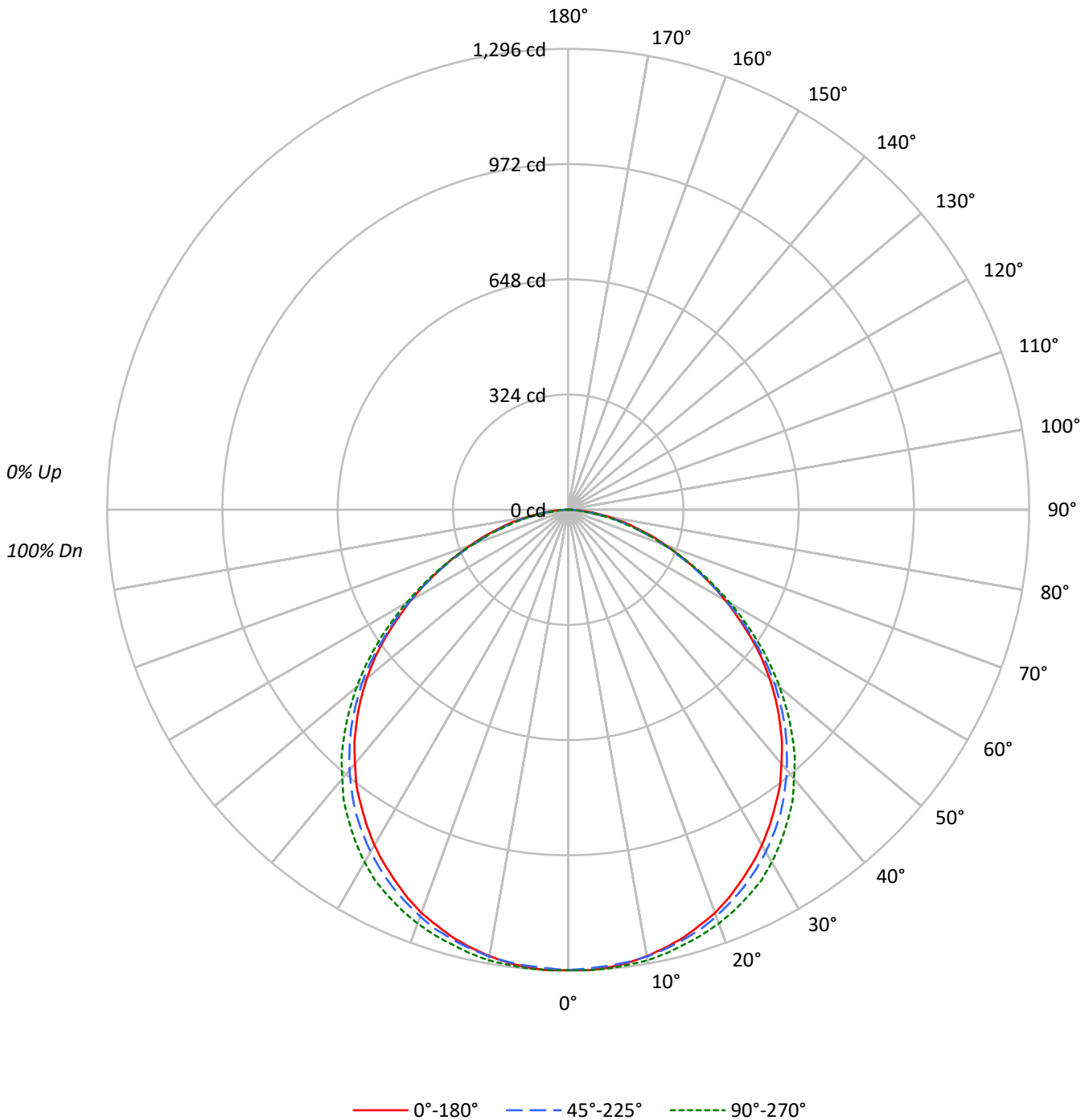
Input Watts (W): 35.061
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1742	1742	1742
5°	1745	1740	1749
10°	1742	1744	1758
15°	1736	1744	1763
20°	1727	1743	1773
25°	1709	1737	1779
30°	1693	1726	1778
35°	1668	1710	1763
40°	1638	1680	1734
45°	1600	1641	1692
50°	1546	1583	1625
55°	1472	1491	1535
60°	1374	1381	1417
65°	1262	1253	1283
70°	1147	1115	1120
75°	1019	964	957
80°	885	791	770
85°	726	560	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	3.5
10°-20°	354.0	10.0
20°-30°	540.4	15.3
30°-40°	651.5	18.4
40°-50°	664.4	18.8
50°-60°	568.6	16.1
60°-70°	391.7	11.1
70°-80°	200.8	5.7
80°-90°	46.7	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°	1017.3	28.7
0°-40°	1668.8	47.1
0°-60°	2901.8	81.9
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1292	1290	1288	1292	1295	123
15°	1247	1245	1252	1261	1265	352
25°	1151	1155	1170	1190	1198	531
35°	1016	1020	1041	1064	1073	635
45°	841	842	862	884	889	648
55°	627	623	635	649	654	560
65°	396	387	394	396	403	394
75°	196	188	185	185	184	211
85°	47	42	36	32	28	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.0	1295.0	1295.0	1295.0	1295.0
2.5°	1296.3	1293.6	1290.9	1293.6	1296.3
5°	1292.3	1289.6	1288.2	1292.3	1295.0
7.5°	1285.6	1282.9	1282.9	1288.2	1290.9
10°	1274.8	1273.5	1276.2	1281.5	1286.9
12.5°	1261.4	1261.4	1265.4	1272.1	1277.5
15°	1246.6	1245.3	1252.0	1261.4	1265.4
17.5°	1226.4	1227.8	1237.2	1247.9	1253.3
20°	1206.3	1207.6	1217.0	1231.8	1238.5
22.5°	1180.8	1183.5	1194.2	1213.0	1219.7
25°	1151.2	1155.3	1170.0	1190.2	1198.2
27.5°	1121.7	1125.7	1141.8	1164.7	1175.4
30°	1089.4	1094.8	1110.9	1135.1	1144.5
32.5°	1053.2	1057.2	1077.3	1101.5	1110.9
35°	1015.5	1019.6	1041.1	1063.9	1073.3
37.5°	977.9	977.9	999.4	1026.3	1035.7
40°	932.3	933.6	956.4	982.0	987.3
42.5°	889.3	889.3	909.4	933.6	943.0
45°	840.9	842.3	862.4	883.9	889.3
47.5°	791.2	791.2	808.7	828.8	834.2
50°	738.8	736.1	756.3	772.4	776.4
52.5°	685.1	681.1	697.2	710.6	716.0
55°	627.3	623.3	635.4	648.8	654.2
57.5°	566.9	561.5	574.9	587.0	589.7
60°	510.5	502.4	513.1	519.9	526.6
62.5°	454.0	444.6	452.7	456.7	462.1
65°	396.3	386.9	393.6	396.3	403.0
67.5°	341.2	334.5	335.8	339.9	342.5
70°	291.5	283.4	283.4	283.4	284.8
72.5°	245.8	233.7	232.4	233.7	233.7
75°	196.1	188.1	185.4	185.4	184.0
77.5°	157.2	146.4	145.1	142.4	139.7
80°	114.2	104.8	102.1	100.7	99.4
82.5°	79.3	71.2	68.5	65.8	61.8
85°	47.0	41.6	36.3	32.2	28.2
87.5°	17.5	16.1	13.4	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)