

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: P296324

Luminaire Tested: **24RLN-LD5-50-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296324
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3826.0 lumens
Efficiency: N/A
Efficacy: 106.9 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

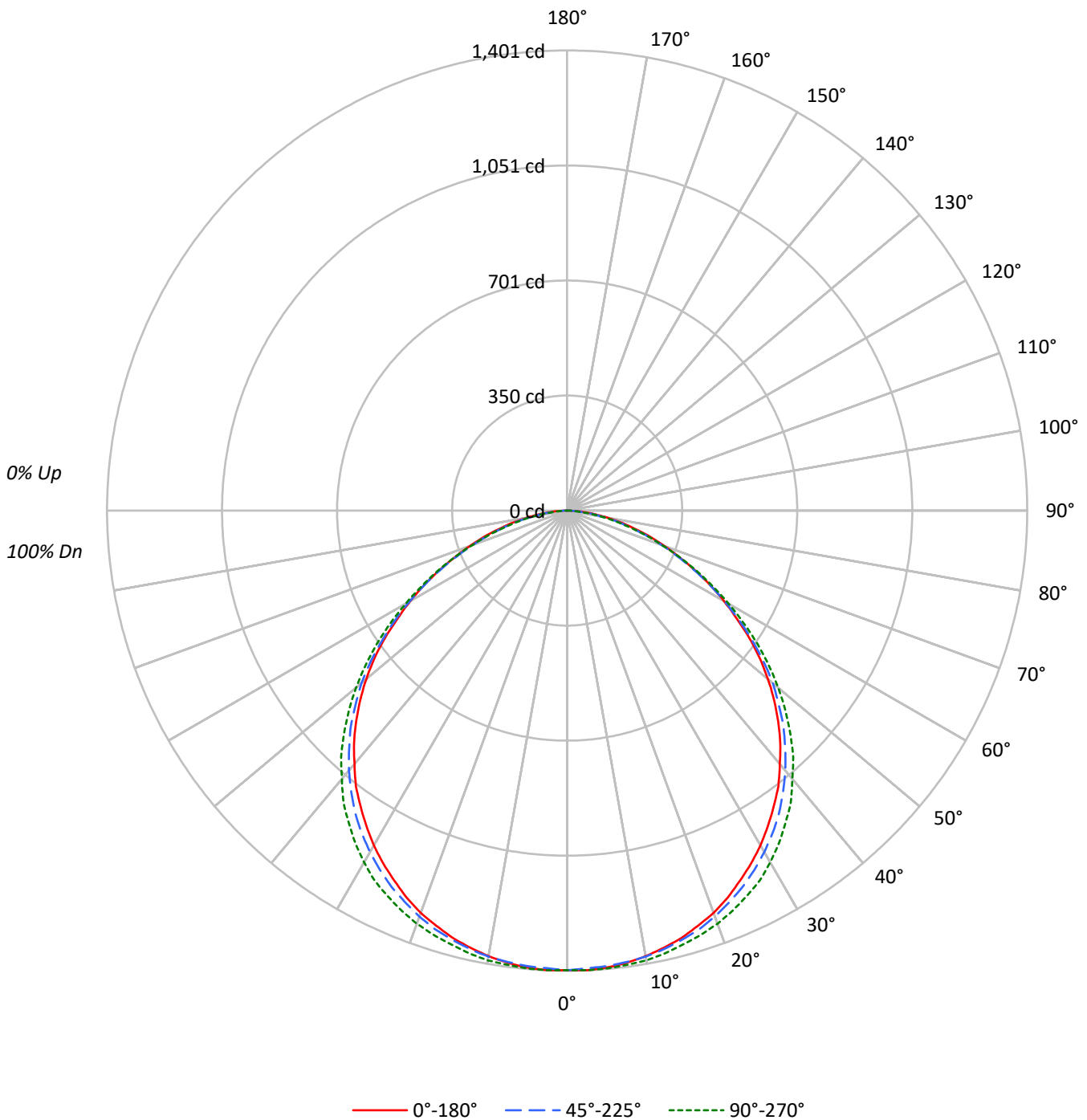
Input Watts (W): 35.805
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1883	1883	1883
5°	1886	1880	1890
10°	1882	1884	1900
15°	1876	1884	1905
20°	1866	1883	1916
25°	1847	1877	1922
30°	1829	1865	1921
35°	1802	1848	1905
40°	1769	1815	1874
45°	1729	1773	1828
50°	1671	1711	1756
55°	1590	1610	1658
60°	1484	1492	1531
65°	1363	1354	1386
70°	1239	1205	1210
75°	1102	1041	1033
80°	956	855	832
85°	784	605	471



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	3.5
10°-20°	382.5	10.0
20°-30°	583.9	15.3
30°-40°	704.0	18.4
40°-50°	717.9	18.8
50°-60°	614.4	16.1
60°-70°	423.2	11.1
70°-80°	216.9	5.7
80°-90°	50.5	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°	1099.2	28.7
0°-40°	1803.1	47.1
0°-60°	3135.3	81.9
0°-90°	3826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1396	1393	1392	1396	1399	133
15°	1347	1346	1353	1363	1367	380
25°	1244	1248	1264	1286	1295	574
35°	1097	1102	1125	1150	1160	686
45°	909	910	932	955	961	700
55°	678	674	686	701	707	605
65°	428	418	425	428	435	425
75°	212	203	200	200	199	228
85°	51	45	39	35	30	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.2	1399.2	1399.2	1399.2	1399.2
2.5°	1400.6	1397.7	1394.8	1397.7	1400.6
5°	1396.3	1393.4	1391.9	1396.3	1399.2
7.5°	1389.0	1386.1	1386.1	1391.9	1394.8
10°	1377.4	1376.0	1378.9	1384.7	1390.5
12.5°	1362.9	1362.9	1367.3	1374.5	1380.3
15°	1346.9	1345.5	1352.7	1362.9	1367.3
17.5°	1325.2	1326.6	1336.8	1348.4	1354.2
20°	1303.4	1304.8	1315.0	1331.0	1338.2
22.5°	1275.8	1278.7	1290.3	1310.6	1317.9
25°	1243.9	1248.2	1264.2	1286.0	1294.7
27.5°	1211.9	1216.3	1233.7	1258.4	1270.0
30°	1177.1	1182.9	1200.3	1226.5	1236.6
32.5°	1137.9	1142.3	1164.1	1190.2	1200.3
35°	1097.3	1101.6	1124.9	1149.5	1159.7
37.5°	1056.6	1056.6	1079.9	1108.9	1119.1
40°	1007.3	1008.7	1033.4	1061.0	1066.8
42.5°	960.8	960.8	982.6	1008.7	1018.9
45°	908.6	910.0	931.8	955.0	960.8
47.5°	854.9	854.9	873.8	895.5	901.3
50°	798.3	795.4	817.2	834.6	838.9
52.5°	740.2	735.9	753.3	767.8	773.6
55°	677.8	673.5	686.5	701.0	706.8
57.5°	612.5	606.7	621.2	634.3	637.2
60°	551.5	542.8	554.4	561.7	569.0
62.5°	490.6	480.4	489.1	493.5	499.3
65°	428.2	418.0	425.3	428.2	435.4
67.5°	368.7	361.4	362.9	367.2	370.1
70°	315.0	306.3	306.3	306.3	307.7
72.5°	265.6	252.5	251.1	252.5	252.5
75°	211.9	203.2	200.3	200.3	198.8
77.5°	169.8	158.2	156.8	153.9	150.9
80°	123.4	113.2	110.3	108.9	107.4
82.5°	85.6	76.9	74.0	71.1	66.8
85°	50.8	45.0	39.2	34.8	30.5
87.5°	18.9	17.4	14.5	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)