

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: P296263

Luminaire Tested: **24RLN-LD5-60-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296263
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-LD5-60-RDP-UNV-L93050-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: 3886.0 lumens
Efficiency: N/A
Efficacy: 87.8 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

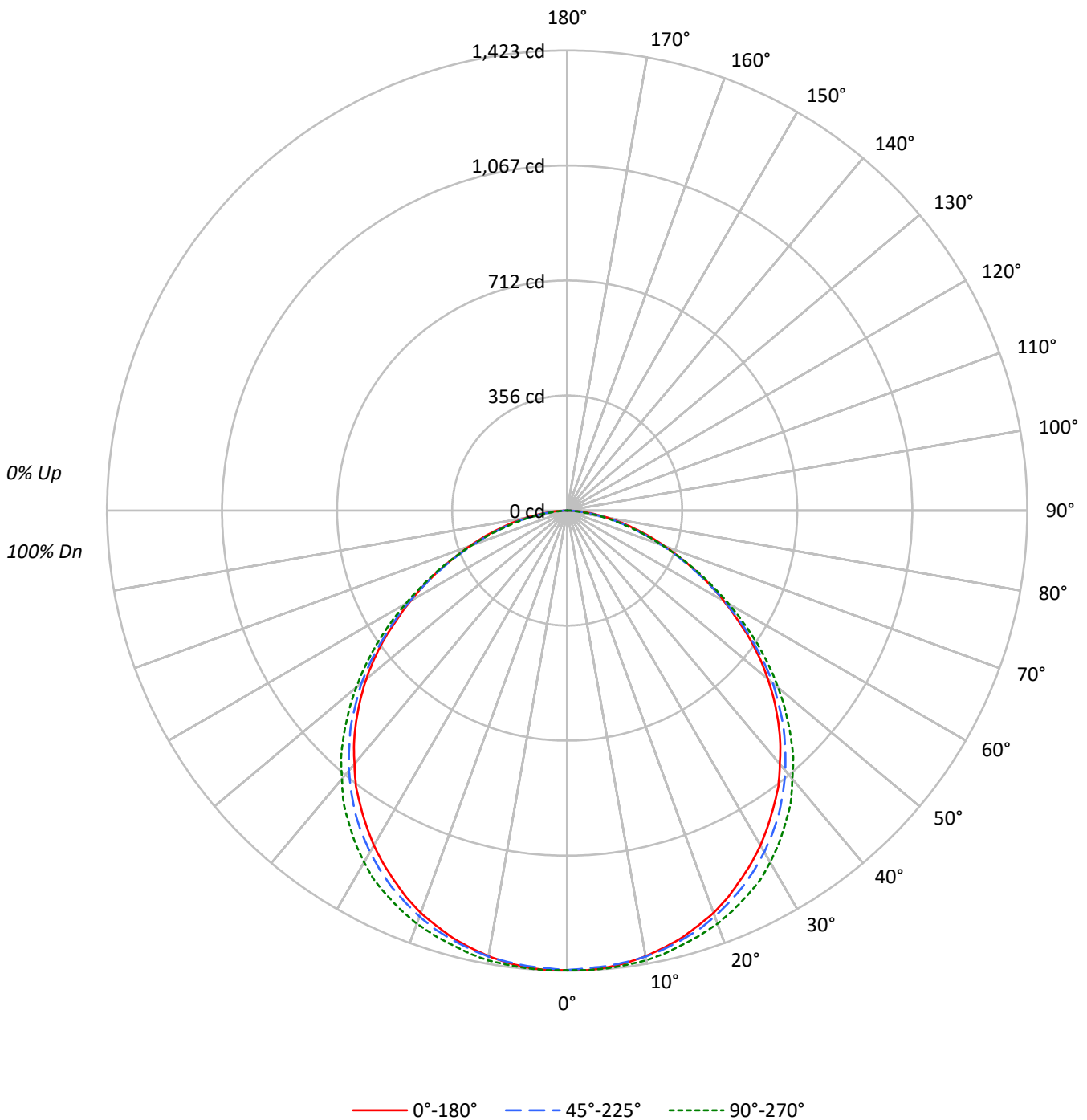
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1912	1912	1912
5°	1915	1910	1919
10°	1911	1913	1930
15°	1906	1914	1934
20°	1895	1912	1946
25°	1876	1906	1952
30°	1858	1894	1951
35°	1831	1877	1935
40°	1797	1844	1903
45°	1756	1801	1857
50°	1697	1737	1784
55°	1615	1636	1684
60°	1507	1515	1555
65°	1385	1375	1408
70°	1258	1224	1229
75°	1119	1057	1050
80°	971	868	845
85°	797	614	479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.8	3.5
10°-20°	388.5	10.0
20°-30°	593.1	15.3
30°-40°	715.0	18.4
40°-50°	729.1	18.8
50°-60°	624.0	16.1
60°-70°	429.8	11.1
70°-80°	220.4	5.7
80°-90°	51.3	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°	1116.4	28.7
0°-40°	1831.4	47.1
0°-60°	3184.5	81.9
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1418	1415	1414	1418	1421	135
15°	1368	1367	1374	1384	1389	386
25°	1263	1268	1284	1306	1315	583
35°	1114	1119	1142	1168	1178	697
45°	923	924	946	970	976	711
55°	688	684	697	712	718	614
65°	435	425	432	435	442	432
75°	215	206	203	203	202	232
85°	52	46	40	35	31	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.1	1421.1	1421.1	1421.1	1421.1
2.5°	1422.6	1419.7	1416.7	1419.7	1422.6
5°	1418.2	1415.2	1413.8	1418.2	1421.1
7.5°	1410.8	1407.9	1407.9	1413.8	1416.7
10°	1399.0	1397.5	1400.5	1406.4	1412.3
12.5°	1384.3	1384.3	1388.7	1396.1	1402.0
15°	1368.1	1366.6	1374.0	1384.3	1388.7
17.5°	1345.9	1347.4	1357.7	1369.5	1375.4
20°	1323.8	1325.3	1335.6	1351.8	1359.2
22.5°	1295.8	1298.8	1310.6	1331.2	1338.6
25°	1263.4	1267.8	1284.0	1306.1	1315.0
27.5°	1231.0	1235.4	1253.1	1278.1	1289.9
30°	1195.6	1201.5	1219.2	1245.7	1256.0
32.5°	1155.8	1160.2	1182.3	1208.8	1219.2
35°	1114.5	1118.9	1142.5	1167.6	1177.9
37.5°	1073.2	1073.2	1096.8	1126.3	1136.6
40°	1023.1	1024.6	1049.6	1077.6	1083.5
42.5°	975.9	975.9	998.0	1024.6	1034.9
45°	922.8	924.3	946.4	970.0	975.9
47.5°	868.3	868.3	887.5	909.6	915.5
50°	810.8	807.9	830.0	847.7	852.1
52.5°	751.8	747.4	765.1	779.8	785.7
55°	688.4	684.0	697.3	712.0	717.9
57.5°	622.1	616.2	631.0	644.2	647.2
60°	560.2	551.3	563.1	570.5	577.9
62.5°	498.3	488.0	496.8	501.2	507.1
65°	434.9	424.6	431.9	434.9	442.3
67.5°	374.4	367.1	368.5	373.0	375.9
70°	319.9	311.1	311.1	311.1	312.5
72.5°	269.8	256.5	255.0	256.5	256.5
75°	215.2	206.4	203.4	203.4	202.0
77.5°	172.5	160.7	159.2	156.3	153.3
80°	125.3	115.0	112.0	110.6	109.1
82.5°	87.0	78.1	75.2	72.2	67.8
85°	51.6	45.7	39.8	35.4	31.0
87.5°	19.2	17.7	14.7	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)