

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: P296328

Luminaire Tested: **24RLN-LD5-55-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296328
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-LD5-55-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: 3606.0 lumens
Efficiency: N/A
Efficacy: 94.3 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

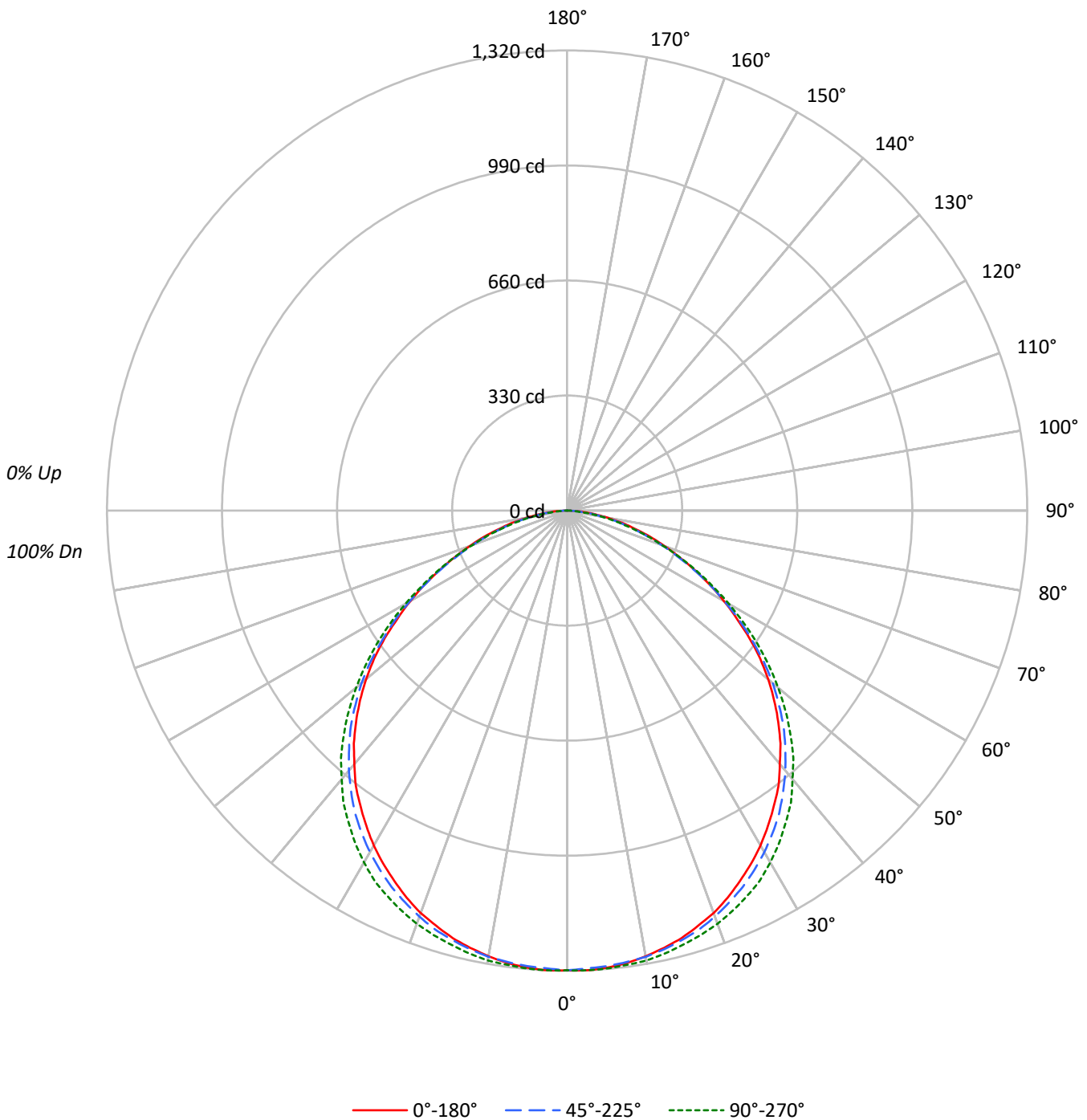
Input Watts (W): 38.223
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1774	1774	1774
5°	1777	1772	1781
10°	1774	1776	1790
15°	1768	1776	1795
20°	1759	1775	1806
25°	1741	1769	1811
30°	1724	1758	1811
35°	1699	1741	1795
40°	1668	1711	1766
45°	1630	1671	1723
50°	1575	1612	1655
55°	1498	1518	1563
60°	1399	1406	1443
65°	1285	1276	1307
70°	1168	1135	1141
75°	1038	981	974
80°	901	806	784
85°	739	570	443



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	3.5
10°-20°	360.5	10.0
20°-30°	550.3	15.3
30°-40°	663.5	18.4
40°-50°	676.6	18.8
50°-60°	579.0	16.1
60°-70°	398.9	11.1
70°-80°	204.5	5.7
80°-90°	47.6	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°	1036.0	28.7
0°-40°	1699.4	47.1
0°-60°	2955.1	81.9
0°-90°	3606.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3606.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1319	1319	1319	1319	1319	
5°	1316	1313	1312	1316	1319	125
15°	1270	1268	1275	1284	1289	358
25°	1172	1176	1192	1212	1220	541
35°	1034	1038	1060	1083	1093	647
45°	856	858	878	900	906	660
55°	639	635	647	661	666	570
65°	404	394	401	404	410	401
75°	200	192	189	189	187	215
85°	48	42	37	33	29	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1318.7	1318.7	1318.7	1318.7	1318.7
2.5°	1320.1	1317.4	1314.6	1317.4	1320.1
5°	1316.0	1313.3	1311.9	1316.0	1318.7
7.5°	1309.2	1306.4	1306.4	1311.9	1314.6
10°	1298.2	1296.8	1299.6	1305.0	1310.5
12.5°	1284.5	1284.5	1288.6	1295.5	1300.9
15°	1269.5	1268.1	1275.0	1284.5	1288.6
17.5°	1249.0	1250.3	1259.9	1270.8	1276.3
20°	1228.4	1229.8	1239.4	1254.4	1261.3
22.5°	1202.5	1205.2	1216.1	1235.3	1242.1
25°	1172.4	1176.5	1191.5	1212.0	1220.2
27.5°	1142.3	1146.4	1162.8	1186.0	1197.0
30°	1109.4	1114.9	1131.3	1155.9	1165.5
32.5°	1072.5	1076.6	1097.1	1121.7	1131.3
35°	1034.2	1038.3	1060.2	1083.4	1093.0
37.5°	995.9	995.9	1017.8	1045.1	1054.7
40°	949.4	950.7	974.0	1000.0	1005.5
42.5°	905.6	905.6	926.1	950.7	960.3
45°	856.4	857.7	878.2	900.1	905.6
47.5°	805.7	805.7	823.5	844.0	849.5
50°	752.4	749.7	770.2	786.6	790.7
52.5°	697.7	693.6	710.0	723.7	729.1
55°	638.8	634.7	647.1	660.7	666.2
57.5°	577.3	571.8	585.5	597.8	600.5
60°	519.8	511.6	522.6	529.4	536.2
62.5°	462.4	452.8	461.0	465.1	470.6
65°	403.6	394.0	400.8	403.6	410.4
67.5°	347.5	340.6	342.0	346.1	348.8
70°	296.9	288.6	288.6	288.6	290.0
72.5°	250.3	238.0	236.7	238.0	238.0
75°	199.7	191.5	188.8	188.8	187.4
77.5°	160.1	149.1	147.7	145.0	142.3
80°	116.3	106.7	104.0	102.6	101.2
82.5°	80.7	72.5	69.8	67.0	62.9
85°	47.9	42.4	36.9	32.8	28.7
87.5°	17.8	16.4	13.7	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)