

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: P296315

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296315
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-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: 3485.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

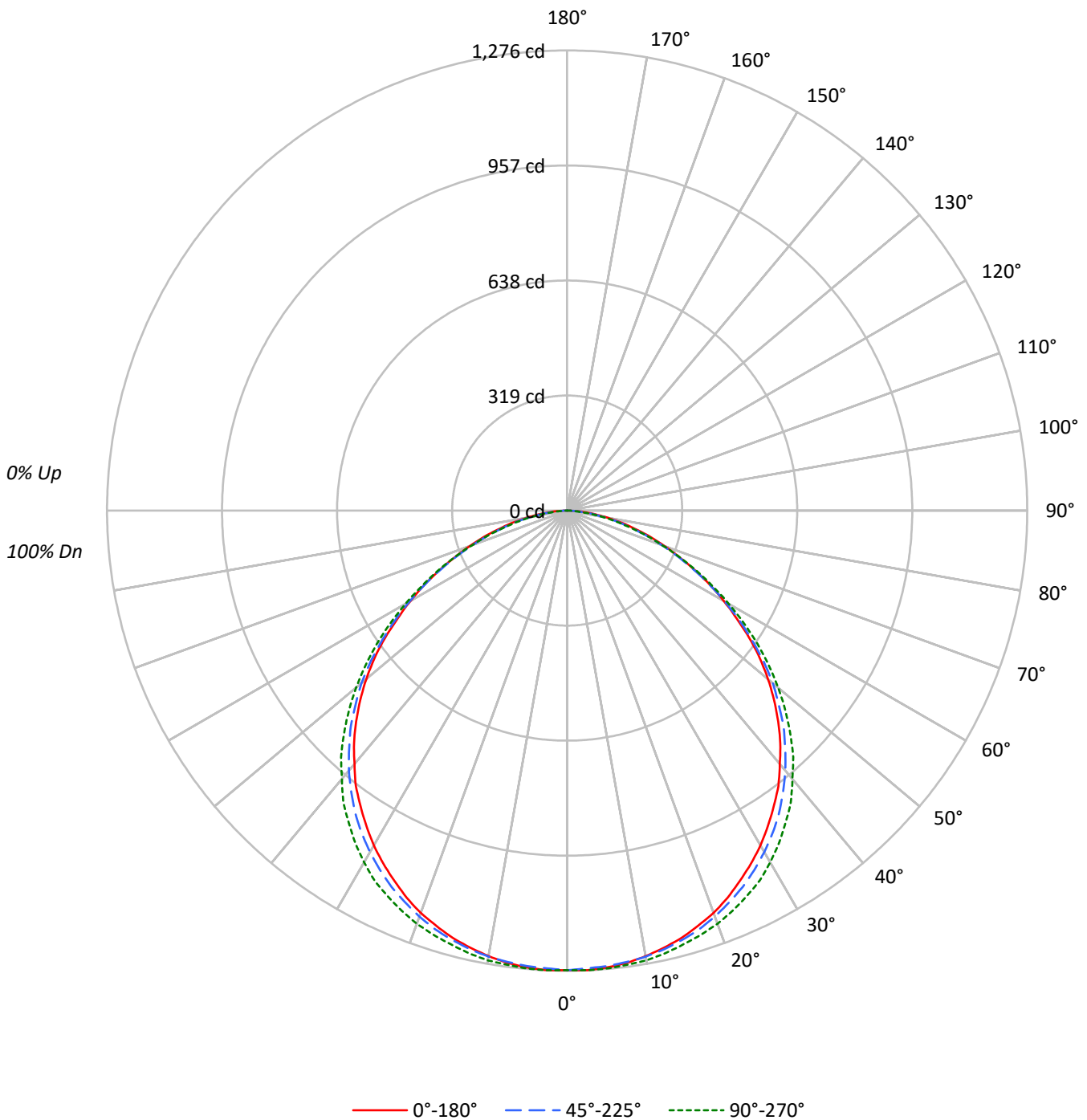
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1715	1715	1715
5°	1718	1712	1721
10°	1714	1716	1730
15°	1709	1716	1735
20°	1700	1715	1745
25°	1682	1709	1751
30°	1666	1699	1750
35°	1642	1683	1735
40°	1612	1653	1707
45°	1575	1615	1665
50°	1522	1558	1600
55°	1448	1467	1510
60°	1352	1359	1395
65°	1242	1233	1263
70°	1129	1098	1103
75°	1003	948	941
80°	871	779	758
85°	715	551	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.5
10°-20°	348.4	10.0
20°-30°	531.9	15.3
30°-40°	641.2	18.4
40°-50°	653.9	18.8
50°-60°	559.6	16.1
60°-70°	385.5	11.1
70°-80°	197.6	5.7
80°-90°	46.0	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°	1001.2	28.7
0°-40°	1642.4	47.1
0°-60°	2855.9	81.9
0°-90°	3485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1272	1269	1268	1272	1274	121
15°	1227	1226	1232	1241	1245	346
25°	1133	1137	1152	1171	1179	522
35°	1000	1004	1025	1047	1056	625
45°	828	829	849	870	875	638
55°	617	613	625	639	644	551
65°	390	381	387	390	397	388
75°	193	185	182	182	181	208
85°	46	41	36	32	28	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.5	1274.5	1274.5	1274.5	1274.5
2.5°	1275.8	1273.2	1270.5	1273.2	1275.8
5°	1271.8	1269.2	1267.9	1271.8	1274.5
7.5°	1265.2	1262.6	1262.6	1267.9	1270.5
10°	1254.6	1253.3	1256.0	1261.3	1266.5
12.5°	1241.4	1241.4	1245.4	1252.0	1257.3
15°	1226.9	1225.6	1232.2	1241.4	1245.4
17.5°	1207.1	1208.4	1217.6	1228.2	1233.5
20°	1187.2	1188.5	1197.8	1212.3	1219.0
22.5°	1162.1	1164.7	1175.3	1193.8	1200.4
25°	1133.0	1137.0	1151.5	1171.4	1179.3
27.5°	1103.9	1107.9	1123.8	1146.2	1156.8
30°	1072.2	1077.5	1093.4	1117.2	1126.4
32.5°	1036.5	1040.5	1060.3	1084.1	1093.4
35°	999.5	1003.5	1024.6	1047.1	1056.3
37.5°	962.5	962.5	983.6	1010.1	1019.3
40°	917.5	918.8	941.3	966.4	971.7
42.5°	875.2	875.2	895.0	918.8	928.1
45°	827.6	828.9	848.8	869.9	875.2
47.5°	778.7	778.7	795.9	815.7	821.0
50°	727.1	724.5	744.3	760.2	764.2
52.5°	674.3	670.3	686.2	699.4	704.7
55°	617.4	613.4	625.3	638.6	643.8
57.5°	557.9	552.6	565.8	577.7	580.4
60°	502.4	494.5	505.0	511.6	518.3
62.5°	446.9	437.6	445.5	449.5	454.8
65°	390.0	380.8	387.4	390.0	396.6
67.5°	335.8	329.2	330.5	334.5	337.1
70°	286.9	279.0	279.0	279.0	280.3
72.5°	241.9	230.0	228.7	230.0	230.0
75°	193.0	185.1	182.4	182.4	181.1
77.5°	154.7	144.1	142.8	140.1	137.5
80°	112.4	103.1	100.5	99.2	97.8
82.5°	78.0	70.1	67.4	64.8	60.8
85°	46.3	41.0	35.7	31.7	27.8
87.5°	17.2	15.9	13.2	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)