

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: P296312

Luminaire Tested: **24RLN-LD5-45-RDP-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296312
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-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: 3226.0 lumens
Efficiency: N/A
Efficacy: 102.0 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

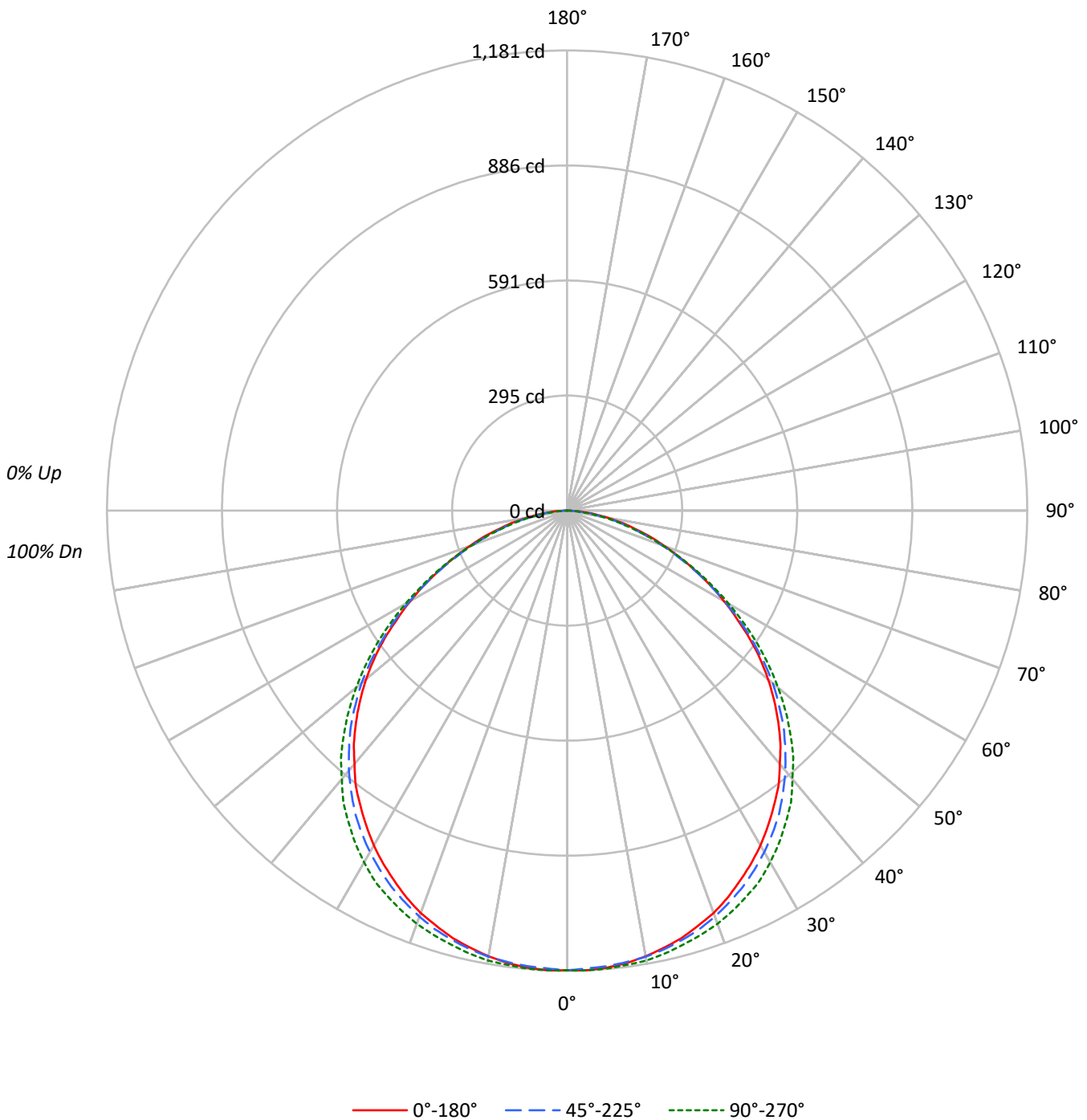
Input Watts (W): 31.62
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1587	1587	1587
5°	1590	1585	1593
10°	1587	1588	1602
15°	1582	1589	1606
20°	1574	1588	1616
25°	1557	1582	1621
30°	1542	1572	1620
35°	1520	1558	1606
40°	1492	1531	1580
45°	1458	1495	1542
50°	1409	1442	1481
55°	1341	1358	1398
60°	1252	1258	1291
65°	1149	1142	1169
70°	1045	1016	1020
75°	929	878	872
80°	806	721	702
85°	661	509	397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.9	3.5
10°-20°	322.6	10.0
20°-30°	492.3	15.3
30°-40°	593.6	18.4
40°-50°	605.3	18.8
50°-60°	518.0	16.1
60°-70°	356.8	11.1
70°-80°	182.9	5.7
80°-90°	42.6	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°	926.8	28.7
0°-40°	1520.3	47.1
0°-60°	2643.7	81.9
0°-90°	3226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1177	1175	1174	1177	1180	112
15°	1136	1134	1141	1149	1153	320
25°	1049	1052	1066	1084	1092	484
35°	925	929	948	969	978	579
45°	766	767	786	805	810	590
55°	572	568	579	591	596	510
65°	361	352	359	361	367	359
75°	179	171	169	169	168	193
85°	43	38	33	29	26	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.8	1179.8	1179.8	1179.8	1179.8
2.5°	1181.0	1178.5	1176.1	1178.5	1181.0
5°	1177.3	1174.9	1173.6	1177.3	1179.8
7.5°	1171.2	1168.7	1168.7	1173.6	1176.1
10°	1161.4	1160.2	1162.6	1167.5	1172.4
12.5°	1149.2	1149.2	1152.8	1159.0	1163.9
15°	1135.7	1134.5	1140.6	1149.2	1152.8
17.5°	1117.3	1118.6	1127.1	1136.9	1141.8
20°	1099.0	1100.2	1108.8	1122.2	1128.4
22.5°	1075.7	1078.2	1088.0	1105.1	1111.2
25°	1048.8	1052.5	1065.9	1084.3	1091.6
27.5°	1021.9	1025.6	1040.2	1061.1	1070.8
30°	992.5	997.4	1012.1	1034.1	1042.7
32.5°	959.5	963.1	981.5	1003.5	1012.1
35°	925.2	928.9	948.5	969.3	977.8
37.5°	890.9	890.9	910.5	935.0	943.6
40°	849.3	850.6	871.4	894.6	899.5
42.5°	810.2	810.2	828.5	850.6	859.1
45°	766.1	767.3	785.7	805.3	810.2
47.5°	720.8	720.8	736.7	755.1	760.0
50°	673.1	670.7	689.0	703.7	707.4
52.5°	624.1	620.5	635.2	647.4	652.3
55°	571.5	567.9	578.9	591.1	596.0
57.5°	516.5	511.6	523.8	534.8	537.3
60°	465.1	457.7	467.5	473.6	479.7
62.5°	413.7	405.1	412.4	416.1	421.0
65°	361.0	352.5	358.6	361.0	367.1
67.5°	310.8	304.7	306.0	309.6	312.1
70°	265.6	258.2	258.2	258.2	259.4
72.5°	224.0	212.9	211.7	212.9	212.9
75°	178.7	171.3	168.9	168.9	167.7
77.5°	143.2	133.4	132.2	129.7	127.3
80°	104.0	95.5	93.0	91.8	90.6
82.5°	72.2	64.9	62.4	60.0	56.3
85°	42.8	37.9	33.0	29.4	25.7
87.5°	15.9	14.7	12.2	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)