

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: P296102

Luminaire Tested: **24RLN-LD5-36-RDP-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296102
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-LD5-36-RDP-UNV-L83050-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3228.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

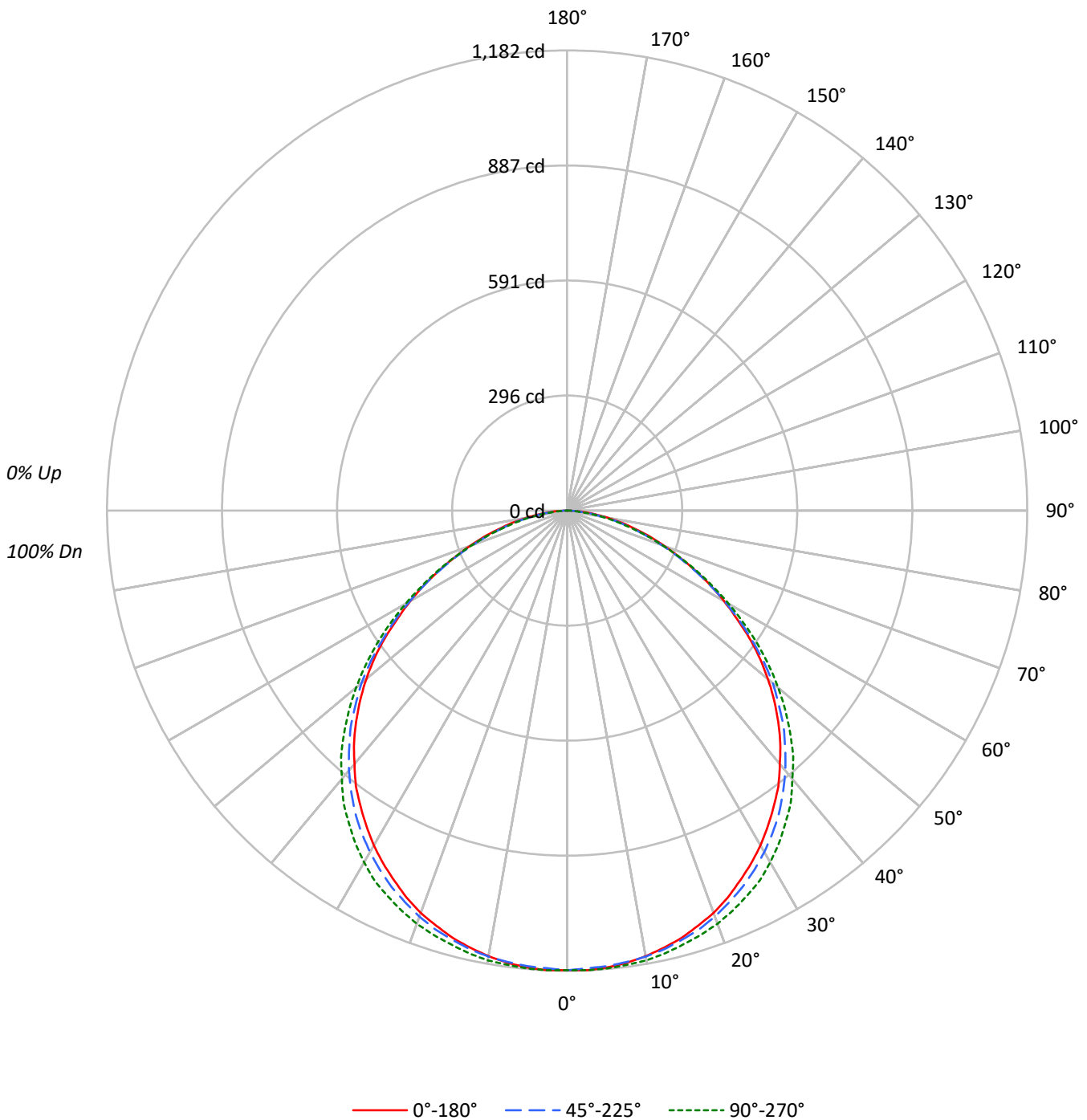
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1588	1588	1588
5°	1591	1586	1594
10°	1588	1589	1603
15°	1583	1590	1607
20°	1575	1589	1617
25°	1558	1583	1622
30°	1543	1573	1621
35°	1521	1559	1607
40°	1493	1531	1581
45°	1459	1496	1543
50°	1410	1443	1482
55°	1342	1359	1399
60°	1252	1259	1292
65°	1150	1142	1170
70°	1045	1017	1021
75°	930	879	872
80°	807	721	702
85°	662	511	397



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	3.5
10°-20°	322.8	10.0
20°-30°	492.7	15.3
30°-40°	593.9	18.4
40°-50°	605.7	18.8
50°-60°	518.3	16.1
60°-70°	357.1	11.1
70°-80°	183.1	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°	927.4	28.7
0°-40°	1521.3	47.1
0°-60°	2645.3	81.9
0°-90°	3228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1178	1176	1174	1178	1180	112
15°	1136	1135	1141	1150	1154	320
25°	1050	1053	1067	1085	1092	484
35°	926	930	949	970	978	579
45°	767	768	786	806	811	591
55°	572	568	579	592	596	510
65°	361	353	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°	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1181.7	1179.3	1176.8	1179.3	1181.7
5°	1178.0	1175.6	1174.4	1178.0	1180.5
7.5°	1171.9	1169.5	1169.5	1174.4	1176.8
10°	1162.1	1160.9	1163.3	1168.2	1173.1
12.5°	1149.9	1149.9	1153.6	1159.7	1164.6
15°	1136.4	1135.2	1141.3	1149.9	1153.6
17.5°	1118.0	1119.3	1127.8	1137.6	1142.5
20°	1099.7	1100.9	1109.5	1122.9	1129.1
22.5°	1076.4	1078.9	1088.6	1105.8	1111.9
25°	1049.5	1053.1	1066.6	1085.0	1092.3
27.5°	1022.5	1026.2	1040.9	1061.7	1071.5
30°	993.1	998.0	1012.7	1034.8	1043.3
32.5°	960.1	963.7	982.1	1004.2	1012.7
35°	925.8	929.5	949.0	969.9	978.4
37.5°	891.5	891.5	911.1	935.6	944.1
40°	849.9	851.1	871.9	895.2	900.1
42.5°	810.7	810.7	829.0	851.1	859.7
45°	766.6	767.8	786.2	805.8	810.7
47.5°	721.3	721.3	737.2	755.6	760.5
50°	673.5	671.1	689.4	704.1	707.8
52.5°	624.5	620.9	635.6	647.8	652.7
55°	571.9	568.2	579.2	591.5	596.4
57.5°	516.8	511.9	524.1	535.1	537.6
60°	465.3	458.0	467.8	473.9	480.0
62.5°	413.9	405.3	412.7	416.4	421.3
65°	361.3	352.7	358.8	361.3	367.4
67.5°	311.0	304.9	306.1	309.8	312.3
70°	265.7	258.4	258.4	258.4	259.6
72.5°	224.1	213.1	211.9	213.1	213.1
75°	178.8	171.4	169.0	169.0	167.8
77.5°	143.3	133.5	132.3	129.8	127.4
80°	104.1	95.5	93.1	91.8	90.6
82.5°	72.3	64.9	62.5	60.0	56.3
85°	42.9	38.0	33.1	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)