

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: P296094

Luminaire Tested: **24RLN-LD5-31-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296094
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-LD5-31-RDP-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2571.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

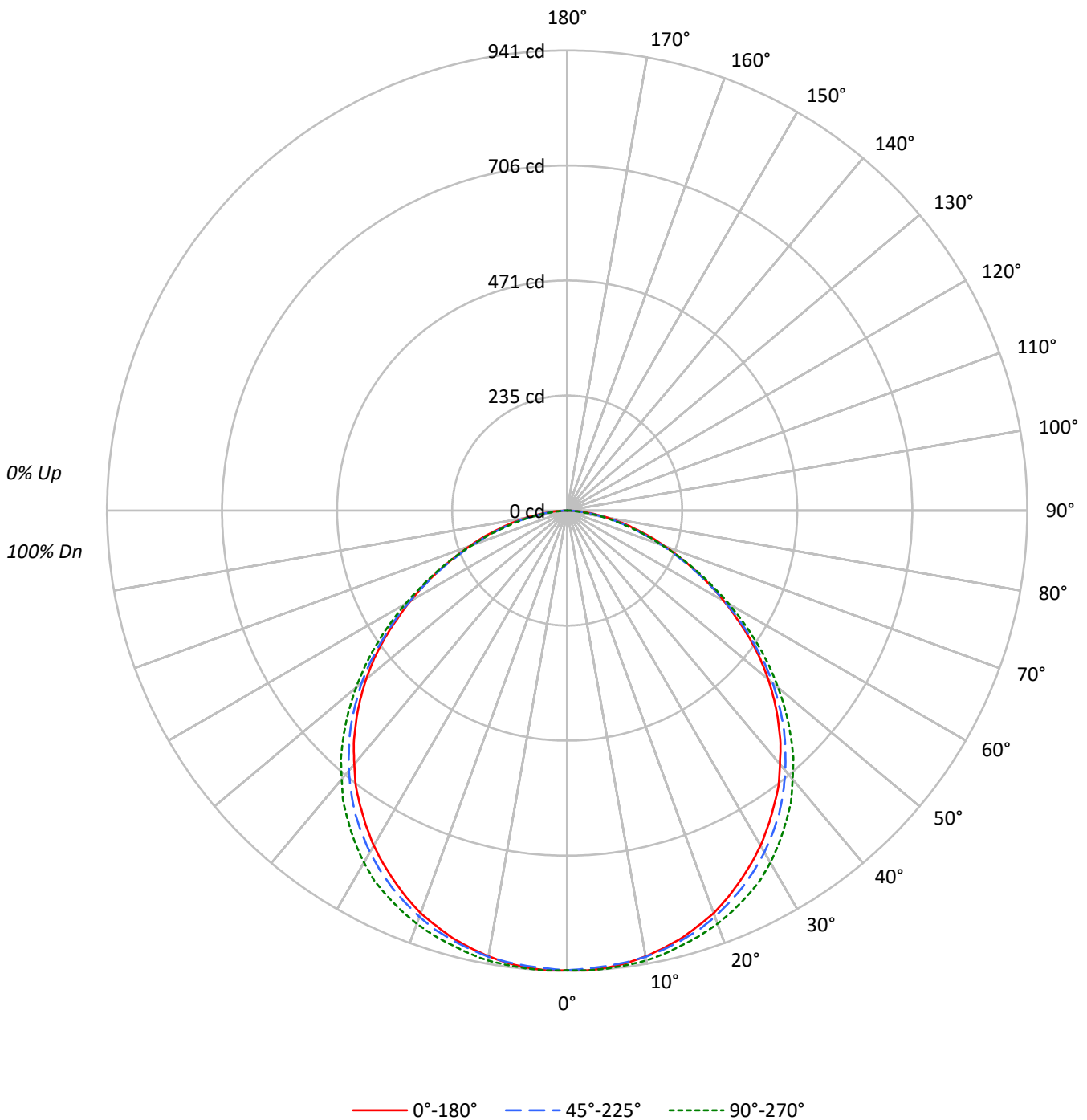
Input Watts (W): 21.204
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1265	1265	1265
5°	1267	1263	1270
10°	1265	1266	1277
15°	1261	1266	1280
20°	1254	1265	1288
25°	1241	1261	1292
30°	1229	1253	1291
35°	1211	1242	1280
40°	1189	1220	1259
45°	1162	1192	1229
50°	1123	1149	1180
55°	1069	1082	1114
60°	997	1003	1029
65°	916	910	932
70°	832	810	814
75°	740	700	695
80°	642	574	559
85°	526	406	316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	3.5
10°-20°	257.1	10.0
20°-30°	392.4	15.3
30°-40°	473.1	18.4
40°-50°	482.4	18.8
50°-60°	412.8	16.1
60°-70°	284.4	11.1
70°-80°	145.8	5.7
80°-90°	33.9	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°	738.6	28.7
0°-40°	1211.7	47.1
0°-60°	2106.9	81.9
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	938	936	935	938	940	89
15°	905	904	909	916	919	255
25°	836	839	850	864	870	385
35°	737	740	756	772	779	461
45°	611	612	626	642	646	470
55°	456	453	461	471	475	406
65°	288	281	286	288	293	286
75°	142	136	135	135	134	153
85°	34	30	26	23	20	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.2	940.2	940.2	940.2	940.2
2.5°	941.2	939.2	937.3	939.2	941.2
5°	938.3	936.3	935.3	938.3	940.2
7.5°	933.4	931.4	931.4	935.3	937.3
10°	925.6	924.6	926.6	930.5	934.4
12.5°	915.8	915.8	918.8	923.6	927.5
15°	905.1	904.1	909.0	915.8	918.8
17.5°	890.5	891.5	898.3	906.1	910.0
20°	875.9	876.8	883.7	894.4	899.3
22.5°	857.3	859.3	867.1	880.7	885.6
25°	835.9	838.8	849.5	864.1	870.0
27.5°	814.4	817.3	829.0	845.6	853.4
30°	791.0	794.9	806.6	824.2	831.0
32.5°	764.7	767.6	782.2	799.8	806.6
35°	737.4	740.3	755.9	772.5	779.3
37.5°	710.0	710.0	725.7	745.2	752.0
40°	676.9	677.9	694.4	713.0	716.9
42.5°	645.7	645.7	660.3	677.9	684.7
45°	610.6	611.5	626.2	641.8	645.7
47.5°	574.5	574.5	587.2	601.8	605.7
50°	536.4	534.5	549.1	560.8	563.7
52.5°	497.4	494.5	506.2	516.0	519.9
55°	455.5	452.6	461.3	471.1	475.0
57.5°	411.6	407.7	417.4	426.2	428.2
60°	370.6	364.8	372.6	377.5	382.3
62.5°	329.7	322.8	328.7	331.6	335.5
65°	287.7	280.9	285.8	287.7	292.6
67.5°	247.7	242.9	243.8	246.8	248.7
70°	211.6	205.8	205.8	205.8	206.8
72.5°	178.5	169.7	168.7	169.7	169.7
75°	142.4	136.5	134.6	134.6	133.6
77.5°	114.1	106.3	105.3	103.4	101.4
80°	82.9	76.1	74.1	73.2	72.2
82.5°	57.5	51.7	49.7	47.8	44.9
85°	34.1	30.2	26.3	23.4	20.5
87.5°	12.7	11.7	9.8	8.8	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)