

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: P295860

Luminaire Tested: **24RLN-LD5-80-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-UNV-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8466.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

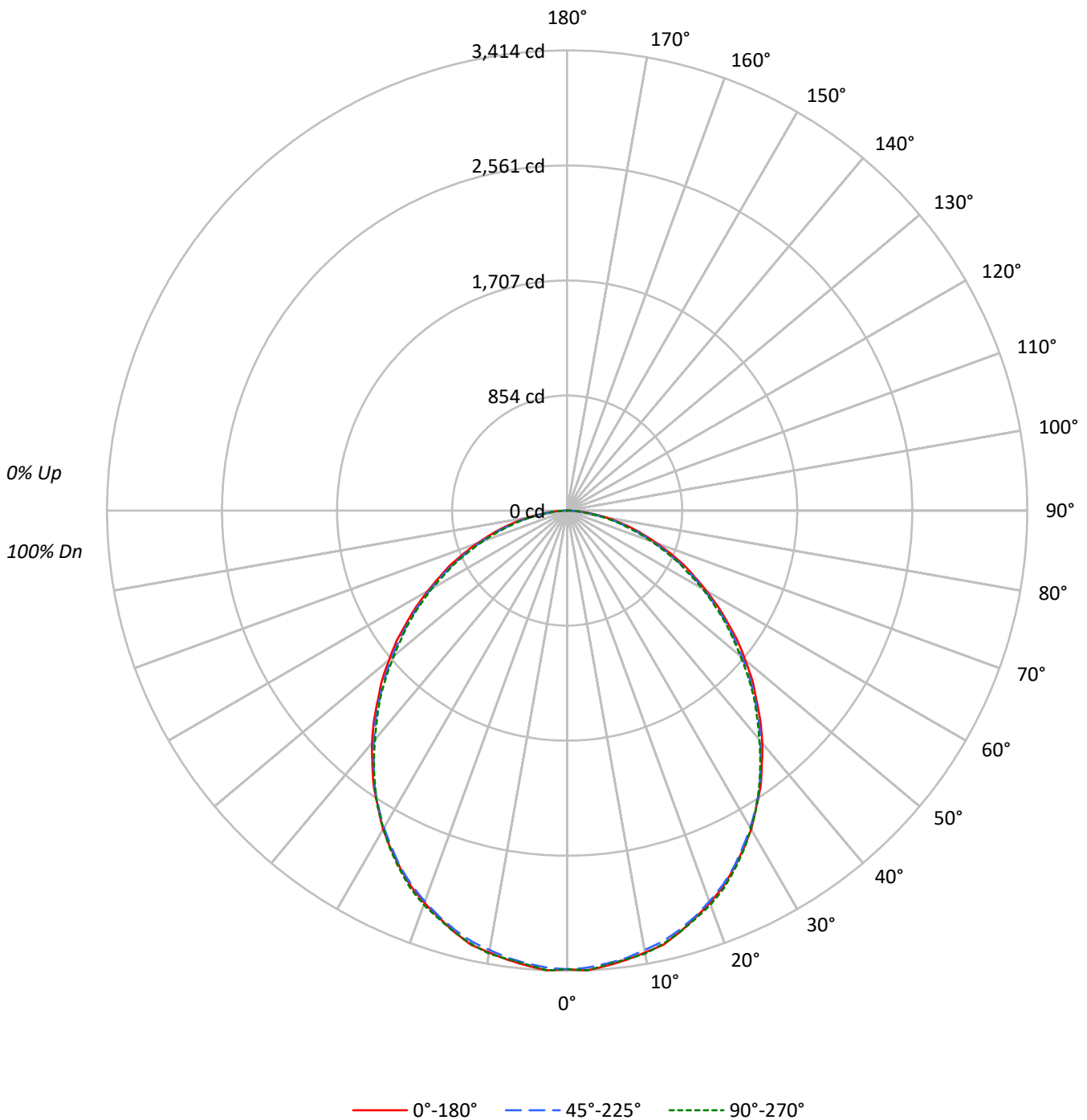
Input Watts (W): 62.124
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4579	4579	4579
5°	4578	4556	4567
10°	4549	4523	4560
15°	4508	4485	4508
20°	4435	4419	4454
25°	4347	4339	4363
30°	4243	4222	4235
35°	4109	4091	4082
40°	3958	3919	3895
45°	3778	3742	3726
50°	3607	3550	3510
55°	3415	3364	3331
60°	3212	3153	3116
65°	3035	2922	2896
70°	2783	2675	2622
75°	2556	2400	2300
80°	2243	2095	1968
85°	1812	1686	1434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	3.8
10°-20°	910.3	10.8
20°-30°	1346.5	15.9
30°-40°	1554.0	18.4
40°-50°	1517.8	17.9
50°-60°	1281.7	15.1
60°-70°	912.9	10.8
70°-80°	494.3	5.8
80°-90°	127.5	1.5
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°	2577.9	30.4
0°-40°	4131.9	48.8
0°-60°	6931.3	81.9
0°-90°	8466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3403	3403	3403	3403	3403	
5°	3389	3389	3373	3381	3381	322
15°	3236	3223	3220	3234	3236	912
25°	2928	2912	2922	2933	2939	1348
35°	2502	2483	2491	2483	2485	1561
45°	1986	1969	1966	1958	1958	1535
55°	1456	1437	1434	1420	1420	1305
65°	953	934	918	907	910	940
75°	492	475	462	451	442	520
85°	117	115	109	96	93	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3403.1	3403.1	3403.1	3403.1	3403.1
2.5°	3414.0	3400.4	3394.9	3397.6	3414.0
5°	3389.4	3389.4	3373.0	3381.2	3381.2
7.5°	3362.1	3364.9	3348.5	3362.1	3356.7
10°	3329.3	3321.2	3310.2	3332.1	3337.5
12.5°	3299.3	3280.2	3274.7	3288.4	3291.1
15°	3236.5	3222.8	3220.1	3233.8	3236.5
17.5°	3165.5	3168.2	3157.3	3176.4	3173.7
20°	3097.2	3091.7	3086.3	3108.1	3110.9
22.5°	3020.7	3004.3	3009.8	3028.9	3034.4
25°	2927.9	2911.5	2922.4	2933.3	2938.8
27.5°	2829.5	2821.3	2818.6	2832.3	2837.7
30°	2731.2	2717.6	2717.6	2733.9	2725.8
32.5°	2611.0	2600.1	2605.6	2611.0	2613.8
35°	2501.8	2482.7	2490.9	2482.7	2485.4
37.5°	2373.4	2359.8	2357.0	2354.3	2354.3
40°	2253.3	2242.3	2231.4	2231.4	2217.7
42.5°	2122.2	2108.5	2103.0	2094.8	2086.6
45°	1985.6	1969.2	1966.5	1958.3	1958.3
47.5°	1862.7	1838.1	1835.4	1819.0	1819.0
50°	1723.4	1707.0	1696.1	1685.2	1677.0
52.5°	1597.8	1581.4	1565.0	1554.1	1545.9
55°	1455.7	1436.6	1433.9	1420.2	1420.2
57.5°	1327.4	1311.0	1300.1	1283.7	1286.4
60°	1193.5	1177.2	1171.7	1158.0	1158.0
62.5°	1067.9	1054.2	1046.1	1032.4	1021.5
65°	953.2	934.1	917.7	906.8	909.5
67.5°	827.6	805.7	797.5	786.6	778.4
70°	707.4	693.7	680.1	666.4	666.4
72.5°	595.4	581.7	573.6	557.2	551.7
75°	491.6	475.2	461.6	450.7	442.5
77.5°	387.8	371.4	363.3	349.6	349.6
80°	289.5	278.6	270.4	264.9	254.0
82.5°	199.4	193.9	185.7	177.5	169.3
85°	117.4	114.7	109.2	95.6	92.9
87.5°	46.4	46.4	41.0	38.2	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)