

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: P295996

Luminaire Tested: **24RLN-LD5-74-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295996
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-LD5-74-UNV-L93050-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6943.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

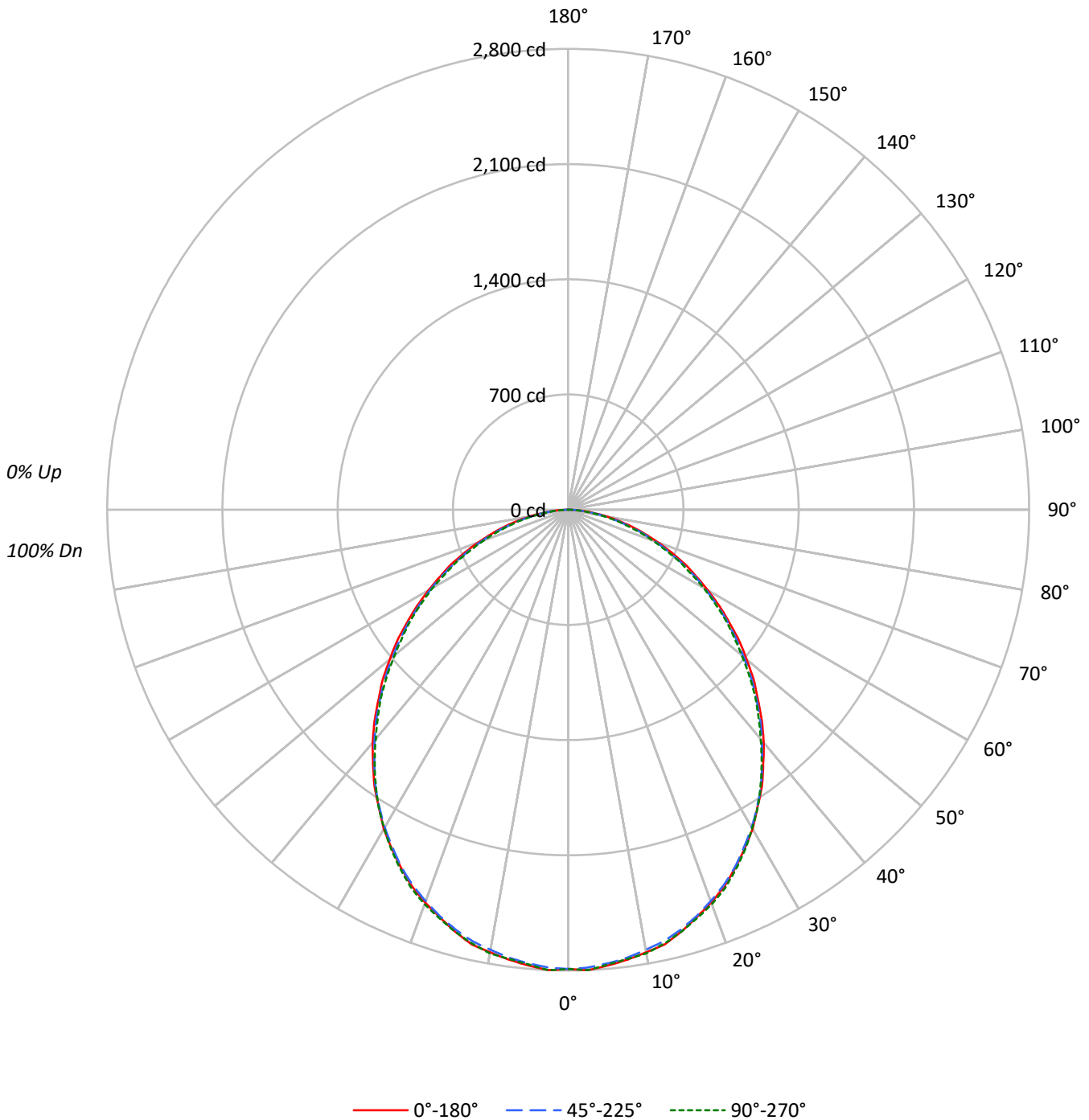
Input Watts (W): 57.381
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3755	3755	3755
5°	3754	3736	3745
10°	3730	3709	3740
15°	3697	3679	3697
20°	3637	3624	3653
25°	3565	3558	3578
30°	3480	3463	3473
35°	3370	3355	3348
40°	3246	3214	3195
45°	3099	3069	3056
50°	2959	2912	2879
55°	2801	2758	2732
60°	2634	2586	2556
65°	2489	2396	2375
70°	2282	2194	2150
75°	2096	1968	1887
80°	1839	1718	1614
85°	1487	1383	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	3.8
10°-20°	746.5	10.8
20°-30°	1104.3	15.9
30°-40°	1274.4	18.4
40°-50°	1244.7	17.9
50°-60°	1051.1	15.1
60°-70°	748.7	10.8
70°-80°	405.4	5.8
80°-90°	104.6	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°	2114.1	30.4
0°-40°	3388.6	48.8
0°-60°	5684.4	81.9
0°-90°	6943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2791	2791	2791	2791	2791	
5°	2780	2780	2766	2773	2773	264
15°	2654	2643	2641	2652	2654	748
25°	2401	2388	2397	2406	2410	1105
35°	2052	2036	2043	2036	2038	1280
45°	1628	1615	1613	1606	1606	1259
55°	1194	1178	1176	1165	1165	1070
65°	782	766	753	744	746	771
75°	403	390	378	370	363	427
85°	96	94	90	78	76	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2790.9	2790.9	2790.9	2790.9	2790.9
2.5°	2799.8	2788.6	2784.2	2786.4	2799.8
5°	2779.7	2779.7	2766.2	2773.0	2773.0
7.5°	2757.3	2759.5	2746.1	2757.3	2752.8
10°	2730.4	2723.7	2714.7	2732.7	2737.1
12.5°	2705.8	2690.1	2685.6	2696.8	2699.1
15°	2654.3	2643.1	2640.8	2652.0	2654.3
17.5°	2596.0	2598.3	2589.3	2605.0	2602.7
20°	2540.0	2535.5	2531.1	2549.0	2551.2
22.5°	2477.3	2463.9	2468.3	2484.0	2488.5
25°	2401.1	2387.7	2396.7	2405.6	2410.1
27.5°	2320.5	2313.8	2311.6	2322.8	2327.2
30°	2239.9	2228.7	2228.7	2242.1	2235.4
32.5°	2141.3	2132.4	2136.8	2141.3	2143.6
35°	2051.7	2036.0	2042.8	2036.0	2038.3
37.5°	1946.5	1935.3	1933.0	1930.8	1930.8
40°	1847.9	1838.9	1830.0	1830.0	1818.8
42.5°	1740.4	1729.2	1724.7	1718.0	1711.3
45°	1628.4	1615.0	1612.7	1606.0	1606.0
47.5°	1527.6	1507.4	1505.2	1491.8	1491.8
50°	1413.4	1399.9	1391.0	1382.0	1375.3
52.5°	1310.3	1296.9	1283.5	1274.5	1267.8
55°	1193.9	1178.2	1175.9	1164.7	1164.7
57.5°	1088.6	1075.1	1066.2	1052.7	1055.0
60°	978.8	965.4	960.9	949.7	949.7
62.5°	875.8	864.6	857.9	846.7	837.7
65°	781.7	766.0	752.6	743.6	745.9
67.5°	678.7	660.8	654.0	645.1	638.4
70°	580.1	568.9	557.7	546.5	546.5
72.5°	488.3	477.1	470.4	456.9	452.5
75°	403.2	389.7	378.5	369.6	362.9
77.5°	318.1	304.6	297.9	286.7	286.7
80°	237.4	228.5	221.7	217.3	208.3
82.5°	163.5	159.0	152.3	145.6	138.9
85°	96.3	94.1	89.6	78.4	76.2
87.5°	38.1	38.1	33.6	31.4	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)