

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: P295994

Luminaire Tested: **24RLN-LD5-74-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295994
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-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6319.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

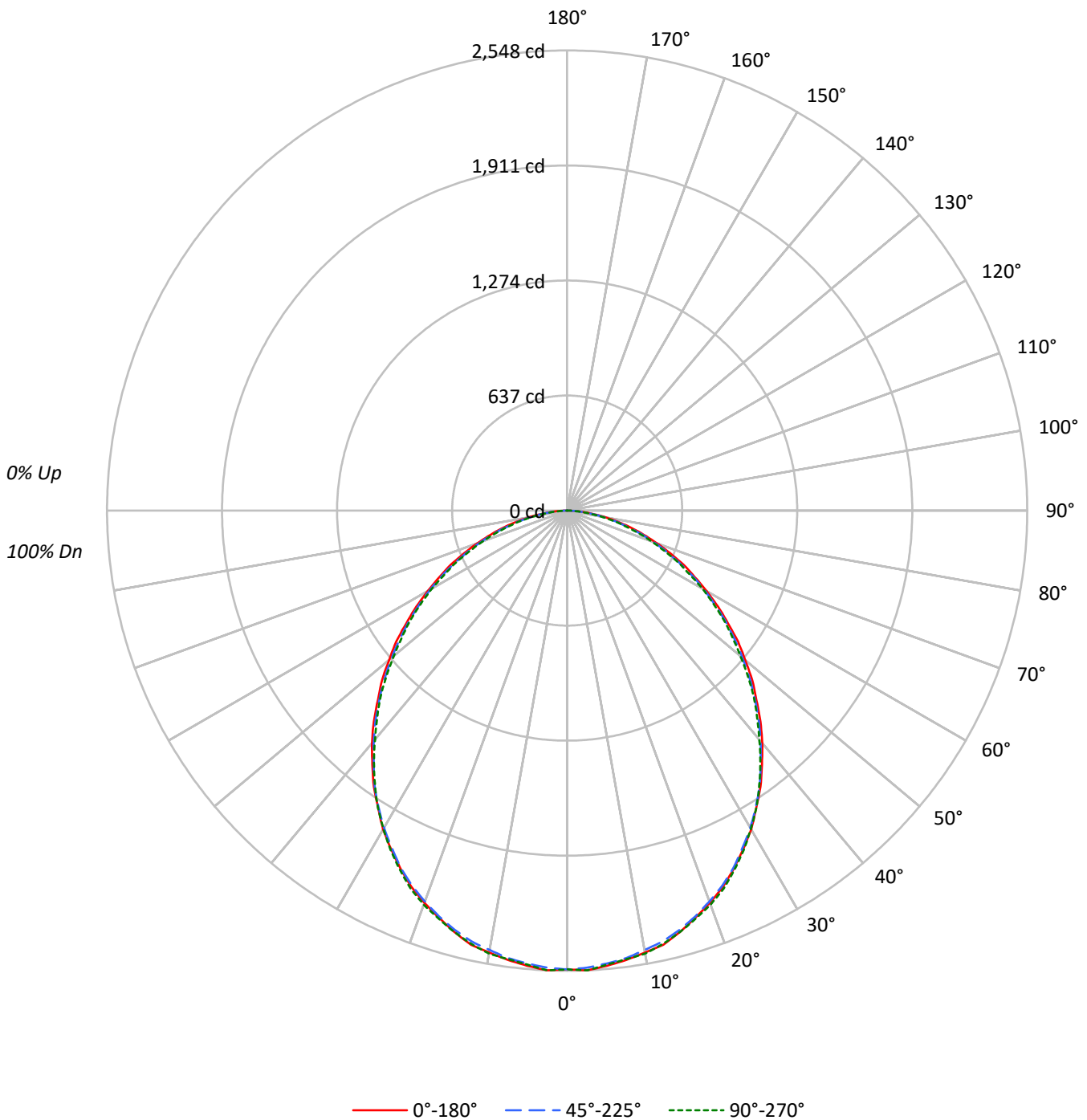
Input Watts (W): 56.079
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3418	3418	3418
5°	3417	3400	3409
10°	3395	3376	3403
15°	3365	3348	3365
20°	3310	3298	3325
25°	3244	3238	3256
30°	3167	3151	3161
35°	3067	3054	3047
40°	2954	2925	2907
45°	2820	2793	2781
50°	2692	2650	2620
55°	2549	2510	2487
60°	2397	2353	2326
65°	2265	2181	2161
70°	2077	1997	1957
75°	1907	1791	1717
80°	1674	1564	1469
85°	1354	1258	1070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.7	3.8
10°-20°	679.4	10.8
20°-30°	1005.0	15.9
30°-40°	1159.9	18.4
40°-50°	1132.9	17.9
50°-60°	956.6	15.1
60°-70°	681.4	10.8
70°-80°	368.9	5.8
80°-90°	95.2	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°	1924.1	30.4
0°-40°	3084.0	48.8
0°-60°	5173.5	81.9
0°-90°	6319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2540	2540	2540	2540	2540	
5°	2530	2530	2518	2524	2524	240
15°	2416	2406	2404	2414	2416	680
25°	2185	2173	2181	2189	2194	1006
35°	1867	1853	1859	1853	1855	1165
45°	1482	1470	1468	1462	1462	1146
55°	1087	1072	1070	1060	1060	974
65°	712	697	685	677	679	701
75°	367	355	344	336	330	388
85°	88	86	82	71	69	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2540.1	2540.1	2540.1	2540.1	2540.1
2.5°	2548.2	2538.0	2533.9	2536.0	2548.2
5°	2529.9	2529.9	2517.6	2523.7	2523.7
7.5°	2509.5	2511.5	2499.3	2509.5	2505.4
10°	2485.0	2478.9	2470.7	2487.1	2491.1
12.5°	2462.6	2448.3	2444.2	2454.4	2456.5
15°	2415.7	2405.5	2403.5	2413.7	2415.7
17.5°	2362.7	2364.7	2356.6	2370.9	2368.8
20°	2311.7	2307.7	2303.6	2319.9	2321.9
22.5°	2254.7	2242.4	2246.5	2260.8	2264.9
25°	2185.3	2173.1	2181.3	2189.4	2193.5
27.5°	2112.0	2105.8	2103.8	2114.0	2118.1
30°	2038.6	2028.4	2028.4	2040.6	2034.5
32.5°	1948.9	1940.7	1944.8	1948.9	1950.9
35°	1867.3	1853.1	1859.2	1853.1	1855.1
37.5°	1771.5	1761.3	1759.3	1757.2	1757.2
40°	1681.8	1673.7	1665.5	1665.5	1655.3
42.5°	1584.0	1573.8	1569.7	1563.6	1557.5
45°	1482.0	1469.8	1467.8	1461.7	1461.7
47.5°	1390.3	1372.0	1369.9	1357.7	1357.7
50°	1286.3	1274.1	1266.0	1257.8	1251.7
52.5°	1192.6	1180.3	1168.1	1159.9	1153.8
55°	1086.6	1072.3	1070.2	1060.1	1060.1
57.5°	990.7	978.5	970.4	958.1	960.2
60°	890.9	878.6	874.5	864.4	864.4
62.5°	797.1	786.9	780.8	770.6	762.4
65°	711.5	697.2	685.0	676.8	678.8
67.5°	617.7	601.4	595.3	587.1	581.0
70°	528.0	517.8	507.6	497.4	497.4
72.5°	444.4	434.2	428.1	415.9	411.8
75°	366.9	354.7	344.5	336.4	330.2
77.5°	289.5	277.2	271.1	260.9	260.9
80°	216.1	207.9	201.8	197.7	189.6
82.5°	148.8	144.7	138.6	132.5	126.4
85°	87.7	85.6	81.5	71.3	69.3
87.5°	34.7	34.7	30.6	28.5	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)