

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: P295839

Luminaire Tested: **24RLN-LD5-55-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295839
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-LD5-55-UNV-L83050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5549.0 lumens
Efficiency: N/A
Efficacy: 144.8 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

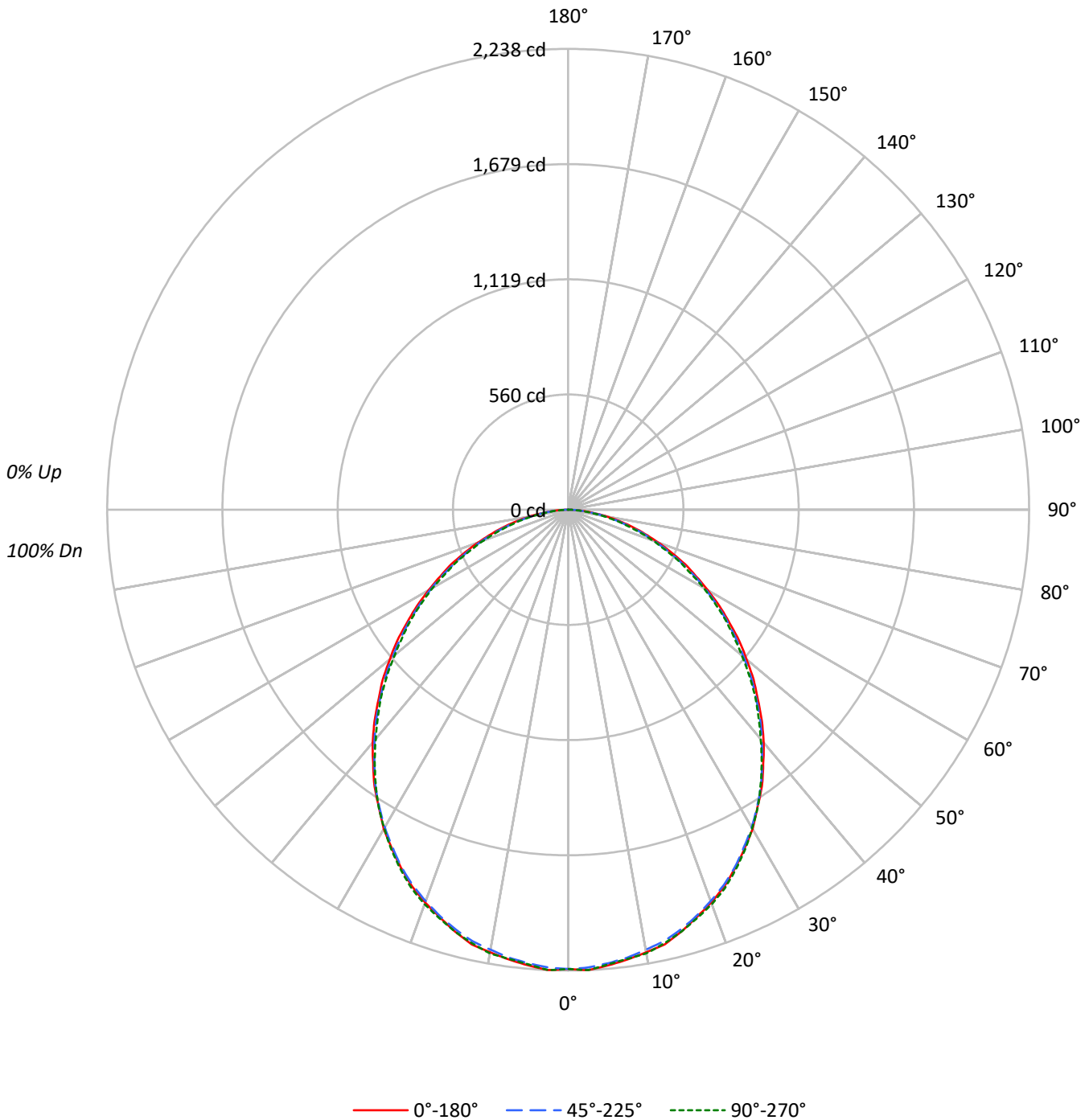
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3001	3001	3001
5°	3001	2986	2993
10°	2981	2964	2989
15°	2955	2940	2955
20°	2907	2896	2920
25°	2849	2844	2860
30°	2781	2767	2776
35°	2693	2682	2676
40°	2594	2569	2553
45°	2476	2453	2442
50°	2364	2327	2301
55°	2238	2205	2184
60°	2105	2067	2042
65°	1989	1915	1898
70°	1824	1753	1718
75°	1675	1573	1508
80°	1471	1373	1290
85°	1189	1105	940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	3.8
10°-20°	596.6	10.8
20°-30°	882.6	15.9
30°-40°	1018.6	18.4
40°-50°	994.8	17.9
50°-60°	840.1	15.1
60°-70°	598.4	10.8
70°-80°	324.0	5.8
80°-90°	83.6	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°	1689.7	30.4
0°-40°	2708.2	48.8
0°-60°	4543.1	81.9
0°-90°	5549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2230	2230	2230	2230	2230	
5°	2222	2222	2211	2216	2216	211
15°	2121	2112	2111	2120	2121	598
25°	1919	1908	1916	1923	1926	884
35°	1640	1627	1633	1627	1629	1023
45°	1301	1291	1289	1284	1284	1006
55°	954	942	940	931	931	855
65°	625	612	602	594	596	616
75°	322	312	302	295	290	341
85°	77	75	72	63	61	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2230.5	2230.5	2230.5	2230.5	2230.5
2.5°	2237.7	2228.7	2225.2	2227.0	2237.7
5°	2221.6	2221.6	2210.8	2216.2	2216.2
7.5°	2203.7	2205.5	2194.7	2203.7	2200.1
10°	2182.2	2176.8	2169.7	2184.0	2187.6
12.5°	2162.5	2150.0	2146.4	2155.4	2157.1
15°	2121.3	2112.4	2110.6	2119.6	2121.3
17.5°	2074.8	2076.6	2069.4	2082.0	2080.2
20°	2030.0	2026.5	2022.9	2037.2	2039.0
22.5°	1979.9	1969.2	1972.8	1985.3	1988.9
25°	1919.1	1908.3	1915.5	1922.6	1926.2
27.5°	1854.6	1849.2	1847.4	1856.4	1860.0
30°	1790.2	1781.2	1781.2	1792.0	1786.6
32.5°	1711.4	1704.2	1707.8	1711.4	1713.2
35°	1639.8	1627.3	1632.6	1627.3	1629.0
37.5°	1555.6	1546.7	1544.9	1543.1	1543.1
40°	1476.9	1469.7	1462.6	1462.6	1453.6
42.5°	1391.0	1382.0	1378.4	1373.1	1367.7
45°	1301.4	1290.7	1288.9	1283.5	1283.5
47.5°	1220.9	1204.8	1203.0	1192.2	1192.2
50°	1129.6	1118.9	1111.7	1104.5	1099.2
52.5°	1047.2	1036.5	1025.8	1018.6	1013.2
55°	954.2	941.6	939.8	930.9	930.9
57.5°	870.0	859.3	852.1	841.4	843.2
60°	782.3	771.6	768.0	759.0	759.0
62.5°	700.0	691.0	685.6	676.7	669.5
65°	624.8	612.2	601.5	594.3	596.1
67.5°	542.4	528.1	522.7	515.6	510.2
70°	463.7	454.7	445.7	436.8	436.8
72.5°	390.3	381.3	375.9	365.2	361.6
75°	322.2	311.5	302.5	295.4	290.0
77.5°	254.2	243.5	238.1	229.1	229.1
80°	189.8	182.6	177.2	173.6	166.5
82.5°	130.7	127.1	121.7	116.4	111.0
85°	77.0	75.2	71.6	62.7	60.9
87.5°	30.4	30.4	26.9	25.1	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)