

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: P295919

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295919
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-LD5-60-UNV-L82765-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: 5884.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

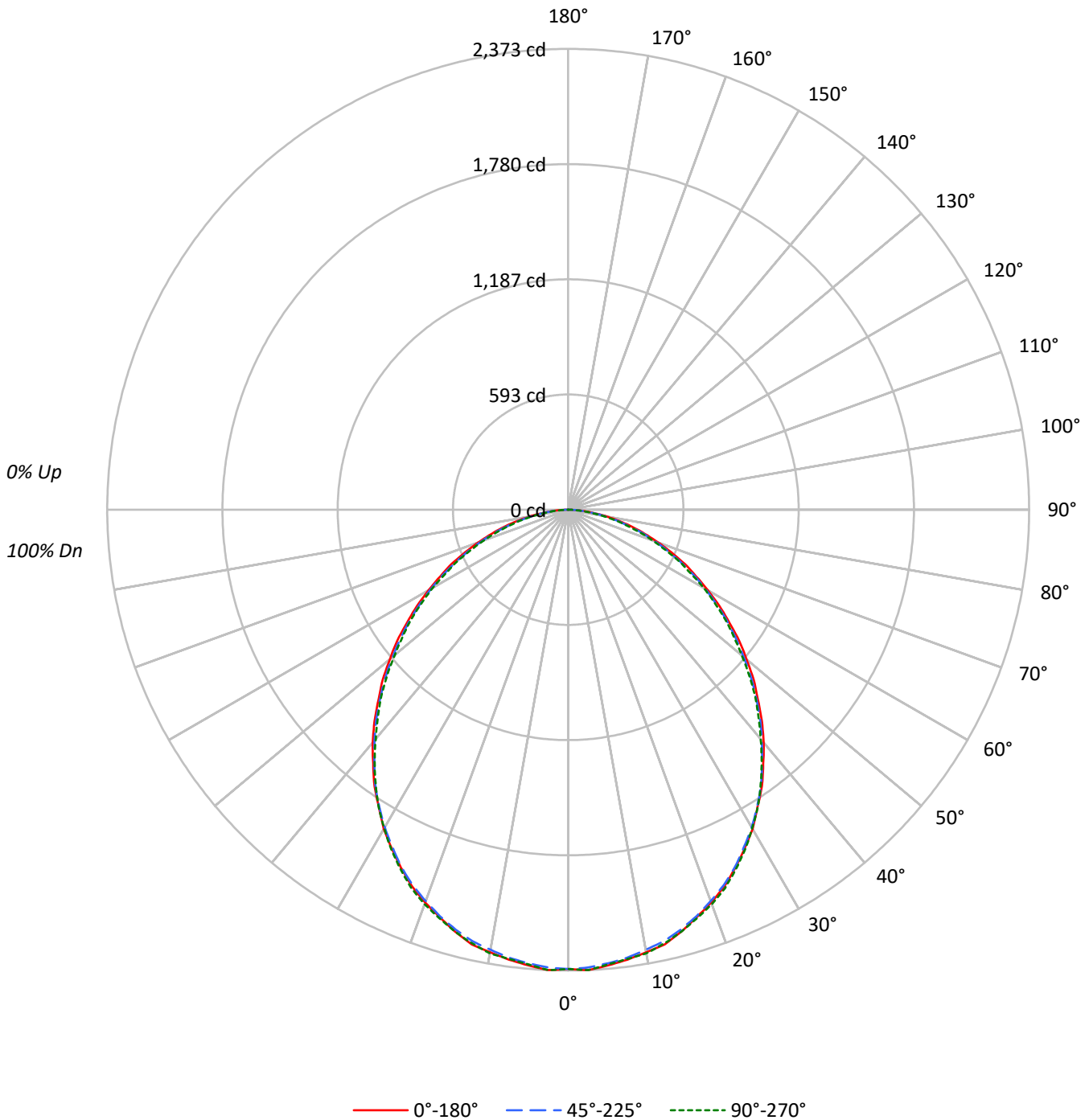
Input Watts (W): 43.431
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3182	3182	3182
5°	3182	3166	3174
10°	3161	3143	3169
15°	3133	3117	3133
20°	3082	3071	3096
25°	3021	3015	3032
30°	2949	2934	2943
35°	2856	2844	2837
40°	2751	2724	2707
45°	2626	2601	2590
50°	2507	2467	2440
55°	2373	2338	2316
60°	2232	2191	2166
65°	2109	2031	2012
70°	1934	1860	1822
75°	1776	1668	1599
80°	1559	1456	1368
85°	1260	1172	996



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.2	3.8
10°-20°	632.7	10.8
20°-30°	935.8	15.9
30°-40°	1080.0	18.4
40°-50°	1054.9	17.9
50°-60°	890.8	15.1
60°-70°	634.5	10.8
70°-80°	343.5	5.8
80°-90°	88.6	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°	1791.7	30.4
0°-40°	2871.7	48.8
0°-60°	4817.3	81.9
0°-90°	5884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2365	2365	2365	2365	2365	
5°	2356	2356	2344	2350	2350	224
15°	2249	2240	2238	2248	2249	634
25°	2035	2024	2031	2039	2042	937
35°	1739	1726	1731	1726	1727	1085
45°	1380	1369	1367	1361	1361	1067
55°	1012	998	997	987	987	907
65°	662	649	638	630	632	653
75°	342	330	321	313	308	362
85°	82	80	76	66	64	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2365.2	2365.2	2365.2	2365.2	2365.2
2.5°	2372.8	2363.3	2359.5	2361.4	2372.8
5°	2355.7	2355.7	2344.3	2350.0	2350.0
7.5°	2336.7	2338.6	2327.2	2336.7	2332.9
10°	2313.9	2308.3	2300.7	2315.8	2319.6
12.5°	2293.1	2279.8	2276.0	2285.5	2287.4
15°	2249.4	2239.9	2238.0	2247.5	2249.4
17.5°	2200.1	2202.0	2194.4	2207.6	2205.7
20°	2152.6	2148.8	2145.0	2160.2	2162.1
22.5°	2099.4	2088.1	2091.9	2105.1	2108.9
25°	2034.9	2023.5	2031.1	2038.7	2042.5
27.5°	1966.6	1960.9	1959.0	1968.5	1972.3
30°	1898.2	1888.7	1888.7	1900.1	1894.4
32.5°	1814.7	1807.1	1810.9	1814.7	1816.6
35°	1738.8	1725.5	1731.2	1725.5	1727.4
37.5°	1649.6	1640.1	1638.2	1636.3	1636.3
40°	1566.0	1558.5	1550.9	1550.9	1541.4
42.5°	1474.9	1465.4	1461.6	1455.9	1450.3
45°	1380.0	1368.6	1366.7	1361.0	1361.0
47.5°	1294.6	1277.5	1275.6	1264.2	1264.2
50°	1197.8	1186.4	1178.8	1171.2	1165.5
52.5°	1110.5	1099.1	1087.7	1080.1	1074.4
55°	1011.8	998.5	996.6	987.1	987.1
57.5°	922.5	911.2	903.6	892.2	894.1
60°	829.5	818.1	814.3	804.9	804.9
62.5°	742.2	732.7	727.0	717.5	709.9
65°	662.5	649.2	637.8	630.2	632.1
67.5°	575.2	560.0	554.3	546.7	541.0
70°	491.6	482.2	472.7	463.2	463.2
72.5°	413.8	404.3	398.6	387.2	383.4
75°	341.7	330.3	320.8	313.2	307.5
77.5°	269.5	258.2	252.5	243.0	243.0
80°	201.2	193.6	187.9	184.1	176.5
82.5°	138.6	134.8	129.1	123.4	117.7
85°	81.6	79.7	75.9	66.4	64.5
87.5°	32.3	32.3	28.5	26.6	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)