

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: P296138

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L83050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6318.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

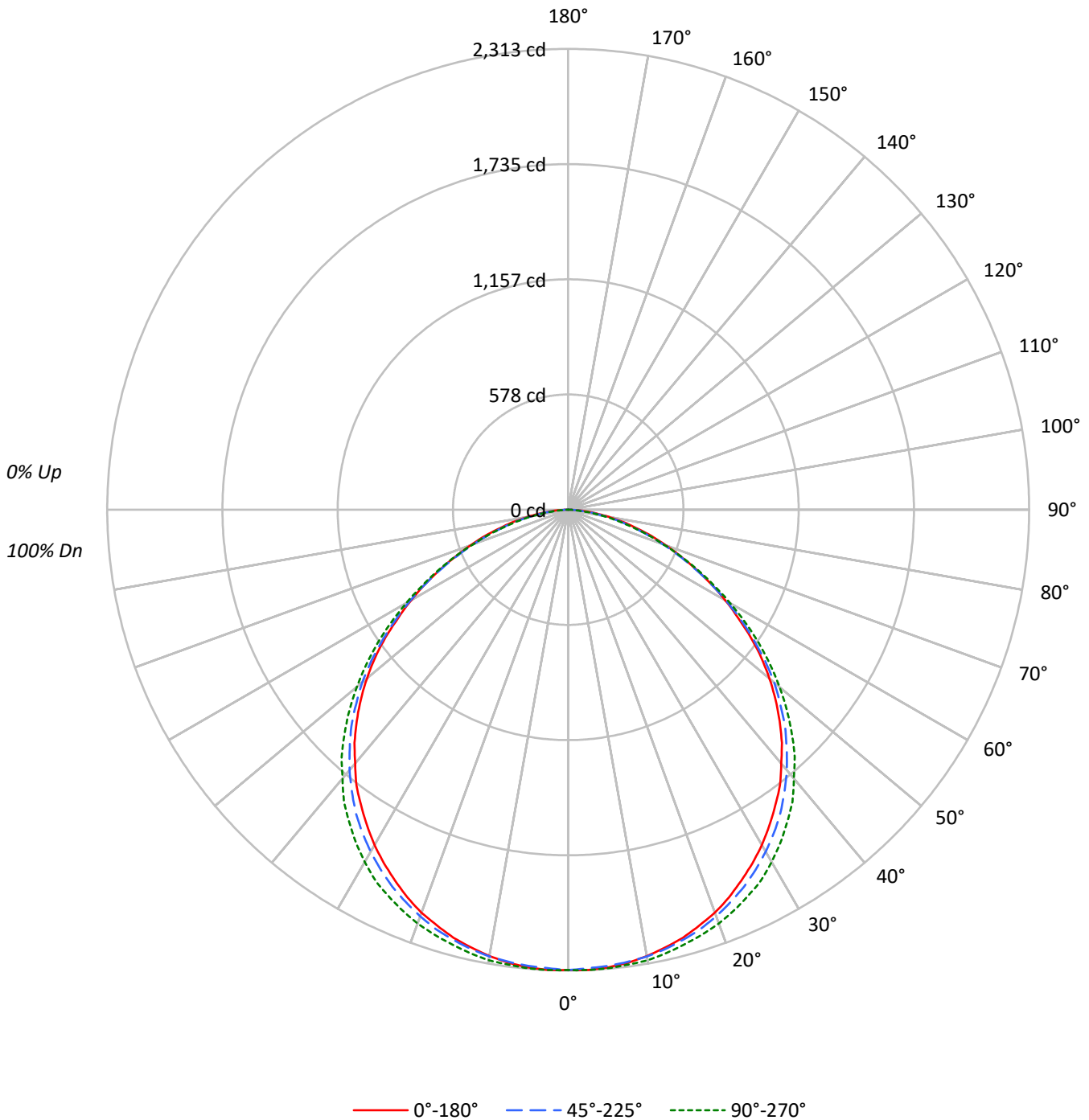
Input Watts (W): 60.636
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3109	3109	3109
5°	3114	3104	3121
10°	3108	3111	3137
15°	3098	3112	3145
20°	3082	3109	3164
25°	3049	3099	3174
30°	3020	3080	3173
35°	2976	3051	3145
40°	2922	2997	3094
45°	2855	2928	3019
50°	2759	2825	2900
55°	2626	2659	2738
60°	2451	2464	2528
65°	2251	2236	2289
70°	2046	1989	1999
75°	1819	1720	1707
80°	1578	1412	1375
85°	1295	999	777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	3.5
10°-20°	631.7	10.0
20°-30°	964.2	15.3
30°-40°	1162.5	18.4
40°-50°	1185.4	18.8
50°-60°	1014.5	16.1
60°-70°	698.8	11.1
70°-80°	358.3	5.7
80°-90°	83.4	1.3
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°	1815.1	28.7
0°-40°	2977.5	47.1
0°-60°	5177.5	81.9
0°-90°	6318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2310	2310	2310	2310	2310	
5°	2306	2301	2298	2306	2310	219
15°	2224	2222	2234	2251	2258	627
25°	2054	2061	2088	2124	2138	947
35°	1812	1819	1858	1898	1915	1134
45°	1500	1503	1539	1577	1587	1156
55°	1119	1112	1134	1158	1167	999
65°	707	690	702	707	719	703
75°	350	336	331	331	328	377
85°	84	74	65	58	50	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2310.5	2310.5	2310.5	2310.5	2310.5
2.5°	2312.9	2308.1	2303.3	2308.1	2312.9
5°	2305.7	2300.9	2298.5	2305.7	2310.5
7.5°	2293.7	2288.9	2288.9	2298.5	2303.3
10°	2274.6	2272.2	2277.0	2286.5	2296.1
12.5°	2250.6	2250.6	2257.8	2269.8	2279.4
15°	2224.2	2221.8	2233.8	2250.6	2257.8
17.5°	2188.3	2190.7	2207.5	2226.6	2236.2
20°	2152.3	2154.7	2171.5	2197.9	2209.9
22.5°	2106.8	2111.6	2130.8	2164.3	2176.3
25°	2054.1	2061.2	2087.6	2123.6	2137.9
27.5°	2001.3	2008.5	2037.3	2078.0	2097.2
30°	1943.8	1953.4	1982.2	2025.3	2042.1
32.5°	1879.1	1886.3	1922.2	1965.4	1982.2
35°	1812.0	1819.2	1857.5	1898.3	1915.0
37.5°	1744.9	1744.9	1783.2	1831.2	1847.9
40°	1663.4	1665.8	1706.5	1752.1	1761.6
42.5°	1586.7	1586.7	1622.6	1665.8	1682.6
45°	1500.4	1502.8	1538.7	1577.1	1586.7
47.5°	1411.7	1411.7	1442.9	1478.8	1488.4
50°	1318.2	1313.4	1349.4	1378.2	1385.4
52.5°	1222.4	1215.2	1243.9	1267.9	1277.5
55°	1119.3	1112.1	1133.7	1157.7	1167.2
57.5°	1011.5	1001.9	1025.8	1047.4	1052.2
60°	910.8	896.4	915.6	927.6	939.5
62.5°	810.1	793.3	807.7	814.9	824.5
65°	707.1	690.3	702.3	707.1	719.0
67.5°	608.8	596.8	599.2	606.4	611.2
70°	520.1	505.7	505.7	505.7	508.1
72.5°	438.6	417.0	414.6	417.0	417.0
75°	349.9	335.6	330.8	330.8	328.4
77.5°	280.4	261.3	258.9	254.1	249.3
80°	203.7	187.0	182.2	179.8	177.4
82.5°	141.4	127.0	122.2	117.4	110.3
85°	83.9	74.3	64.7	57.5	50.3
87.5°	31.2	28.8	24.0	21.6	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)