

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: P296217

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296217
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-LD5-74-RDP-UNV-L82765-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6021.0 lumens
Efficiency: N/A
Efficacy: 108.8 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

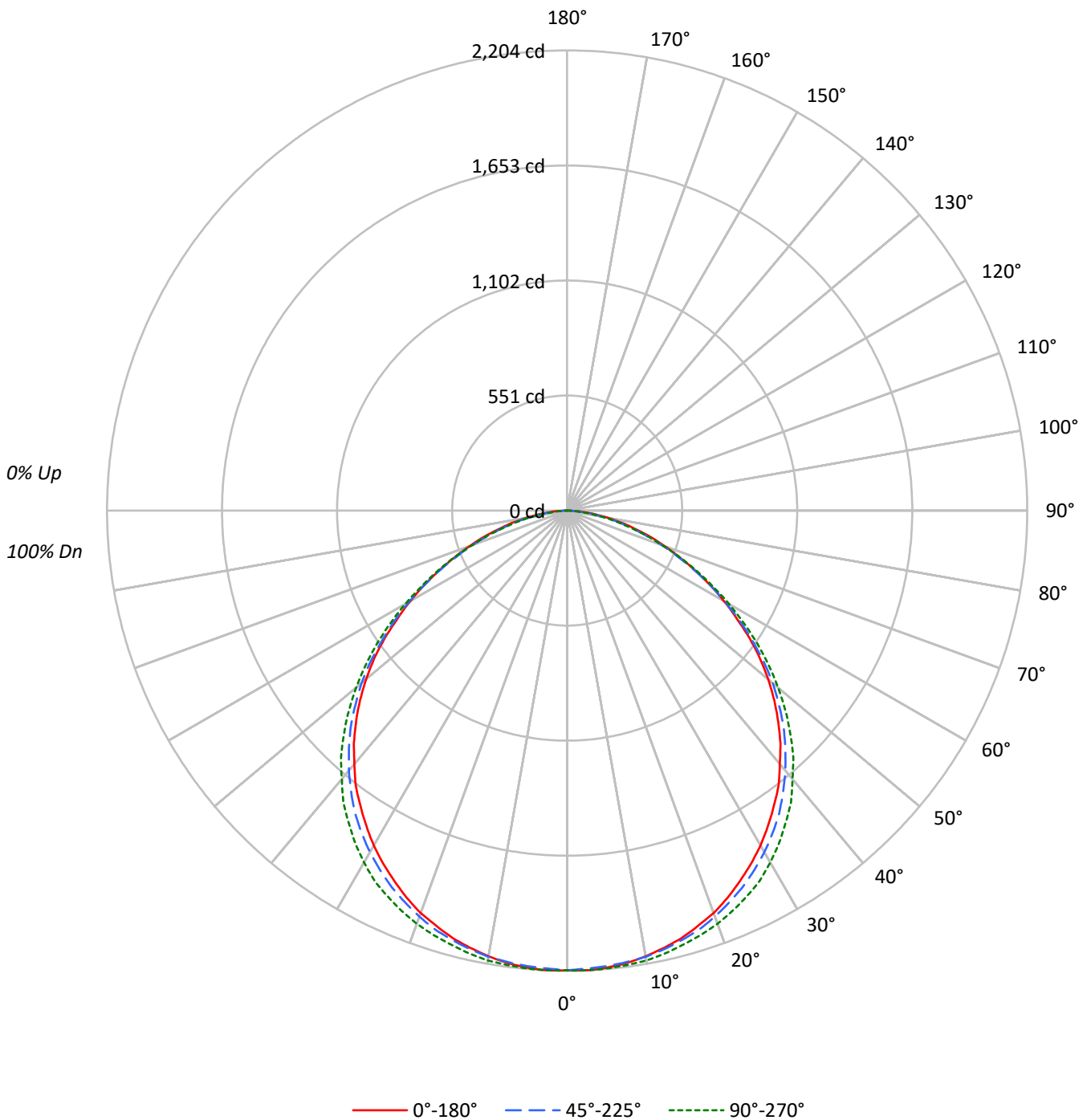
Input Watts (W): 55.335
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2963	2963	2963
5°	2968	2959	2974
10°	2961	2965	2990
15°	2953	2965	2997
20°	2937	2963	3015
25°	2906	2954	3025
30°	2878	2935	3024
35°	2836	2908	2998
40°	2784	2856	2949
45°	2721	2790	2877
50°	2630	2692	2763
55°	2502	2534	2609
60°	2336	2348	2410
65°	2145	2131	2181
70°	1950	1896	1905
75°	1734	1639	1627
80°	1505	1345	1309
85°	1233	953	741



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	3.5
10°-20°	602.0	10.0
20°-30°	918.9	15.3
30°-40°	1107.8	18.4
40°-50°	1129.7	18.8
50°-60°	966.8	16.1
60°-70°	666.0	11.1
70°-80°	341.4	5.7
80°-90°	79.5	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°	1729.7	28.7
0°-40°	2837.6	47.1
0°-60°	4934.1	81.9
0°-90°	6021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2197	2193	2190	2197	2202	209
15°	2120	2117	2129	2145	2152	598
25°	1958	1964	1990	2024	2037	903
35°	1727	1734	1770	1809	1825	1080
45°	1430	1432	1466	1503	1512	1102
55°	1067	1060	1080	1103	1112	952
65°	674	658	669	674	685	670
75°	334	320	315	315	313	359
85°	80	71	62	55	48	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.9	2201.9	2201.9	2201.9	2201.9
2.5°	2204.2	2199.6	2195.1	2199.6	2204.2
5°	2197.3	2192.8	2190.5	2197.3	2201.9
7.5°	2185.9	2181.3	2181.3	2190.5	2195.1
10°	2167.6	2165.4	2169.9	2179.1	2188.2
12.5°	2144.8	2144.8	2151.7	2163.1	2172.2
15°	2119.7	2117.4	2128.8	2144.8	2151.7
17.5°	2085.4	2087.7	2103.7	2122.0	2131.1
20°	2051.1	2053.4	2069.4	2094.5	2106.0
22.5°	2007.8	2012.3	2030.6	2062.6	2074.0
25°	1957.5	1964.4	1989.5	2023.7	2037.4
27.5°	1907.2	1914.1	1941.5	1980.3	1998.6
30°	1852.4	1861.6	1889.0	1930.1	1946.1
32.5°	1790.8	1797.6	1831.9	1873.0	1889.0
35°	1726.8	1733.7	1770.2	1809.0	1825.0
37.5°	1662.8	1662.8	1699.4	1745.1	1761.1
40°	1585.2	1587.5	1626.3	1669.7	1678.8
42.5°	1512.1	1512.1	1546.4	1587.5	1603.5
45°	1429.9	1432.2	1466.4	1503.0	1512.1
47.5°	1345.4	1345.4	1375.0	1409.3	1418.4
50°	1256.3	1251.7	1286.0	1313.4	1320.2
52.5°	1164.9	1158.1	1185.5	1208.3	1217.4
55°	1066.7	1059.8	1080.4	1103.2	1112.4
57.5°	963.9	954.8	977.6	998.2	1002.7
60°	868.0	854.3	872.5	884.0	895.4
62.5°	772.0	756.0	769.8	776.6	785.7
65°	673.8	657.8	669.3	673.8	685.2
67.5°	580.2	568.7	571.0	577.9	582.5
70°	495.7	482.0	482.0	482.0	484.2
72.5°	418.0	397.4	395.2	397.4	397.4
75°	333.5	319.8	315.2	315.2	312.9
77.5°	267.2	249.0	246.7	242.1	237.5
80°	194.2	178.2	173.6	171.3	169.0
82.5°	134.8	121.1	116.5	111.9	105.1
85°	79.9	70.8	61.7	54.8	48.0
87.5°	29.7	27.4	22.8	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)