

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: P296216

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296216
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-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: 5820.0 lumens
Efficiency: N/A
Efficacy: 106.4 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

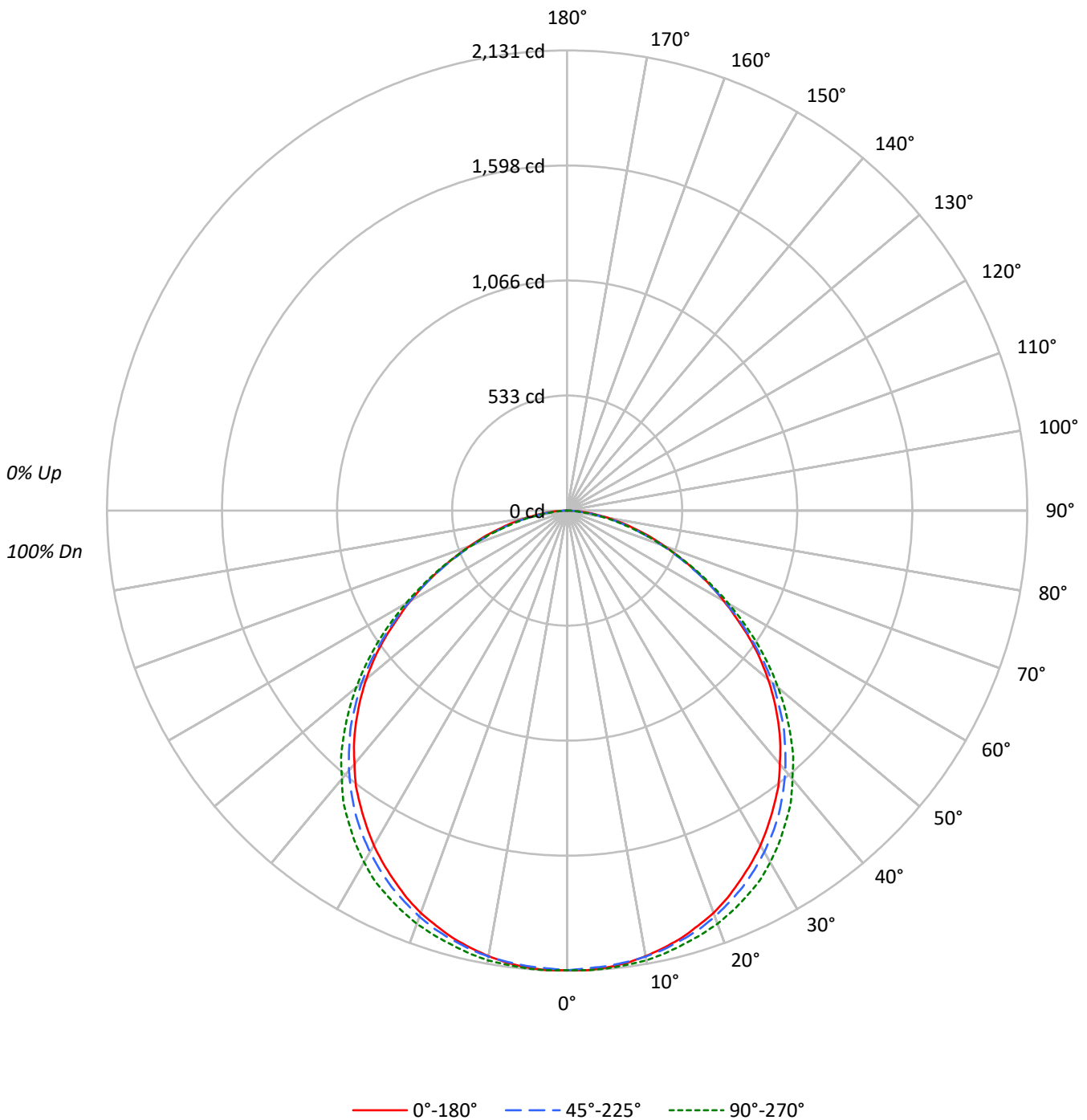
Input Watts (W): 54.684
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2864	2864	2864
5°	2869	2860	2875
10°	2863	2866	2890
15°	2854	2866	2897
20°	2839	2864	2915
25°	2809	2855	2924
30°	2782	2837	2923
35°	2742	2811	2898
40°	2691	2761	2850
45°	2630	2697	2781
50°	2542	2602	2671
55°	2419	2450	2522
60°	2258	2270	2329
65°	2074	2060	2109
70°	1885	1833	1841
75°	1676	1584	1573
80°	1454	1300	1266
85°	1193	920	716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	3.5
10°-20°	581.9	10.0
20°-30°	888.2	15.3
30°-40°	1070.8	18.4
40°-50°	1092.0	18.8
50°-60°	934.6	16.1
60°-70°	643.8	11.1
70°-80°	330.0	5.7
80°-90°	76.8	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°	1672.0	28.7
0°-40°	2742.8	47.1
0°-60°	4769.4	81.9
0°-90°	5820.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2128	2128	2128	2128	2128	
5°	2124	2120	2117	2124	2128	202
15°	2049	2047	2058	2073	2080	578
25°	1892	1899	1923	1956	1969	873
35°	1669	1676	1711	1749	1764	1044
45°	1382	1384	1418	1453	1462	1065
55°	1031	1024	1044	1066	1075	920
65°	651	636	647	651	662	647
75°	322	309	305	305	302	347
85°	77	68	60	53	46	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2128.4	2128.4	2128.4	2128.4	2128.4
2.5°	2130.6	2126.2	2121.8	2126.2	2130.6
5°	2124.0	2119.6	2117.4	2124.0	2128.4
7.5°	2112.9	2108.5	2108.5	2117.4	2121.8
10°	2095.3	2093.1	2097.5	2106.3	2115.1
12.5°	2073.2	2073.2	2079.8	2090.9	2099.7
15°	2048.9	2046.7	2057.7	2073.2	2079.8
17.5°	2015.8	2018.0	2033.5	2051.1	2060.0
20°	1982.7	1984.9	2000.3	2024.6	2035.7
22.5°	1940.7	1945.1	1962.8	1993.7	2004.8
25°	1892.2	1898.8	1923.1	1956.2	1969.4
27.5°	1843.6	1850.2	1876.7	1914.2	1931.9
30°	1790.6	1799.4	1825.9	1865.7	1881.1
32.5°	1731.0	1737.6	1770.7	1810.5	1825.9
35°	1669.2	1675.8	1711.1	1748.6	1764.1
37.5°	1607.3	1607.3	1642.7	1686.8	1702.3
40°	1532.3	1534.5	1572.0	1614.0	1622.8
42.5°	1461.6	1461.6	1494.7	1534.5	1549.9
45°	1382.1	1384.3	1417.5	1452.8	1461.6
47.5°	1300.4	1300.4	1329.1	1362.3	1371.1
50°	1214.3	1209.9	1243.0	1269.5	1276.2
52.5°	1126.0	1119.4	1145.9	1168.0	1176.8
55°	1031.1	1024.5	1044.3	1066.4	1075.2
57.5°	931.7	922.9	945.0	964.8	969.3
60°	839.0	825.7	843.4	854.4	865.5
62.5°	746.3	730.8	744.1	750.7	759.5
65°	651.3	635.9	646.9	651.3	662.4
67.5°	560.8	549.8	552.0	558.6	563.0
70°	479.1	465.9	465.9	465.9	468.1
72.5°	404.0	384.2	382.0	384.2	384.2
75°	322.4	309.1	304.7	304.7	302.5
77.5°	258.3	240.7	238.5	234.0	229.6
80°	187.7	172.2	167.8	165.6	163.4
82.5°	130.3	117.0	112.6	108.2	101.6
85°	77.3	68.4	59.6	53.0	46.4
87.5°	28.7	26.5	22.1	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)