

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: P296220

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296220
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-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6347.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

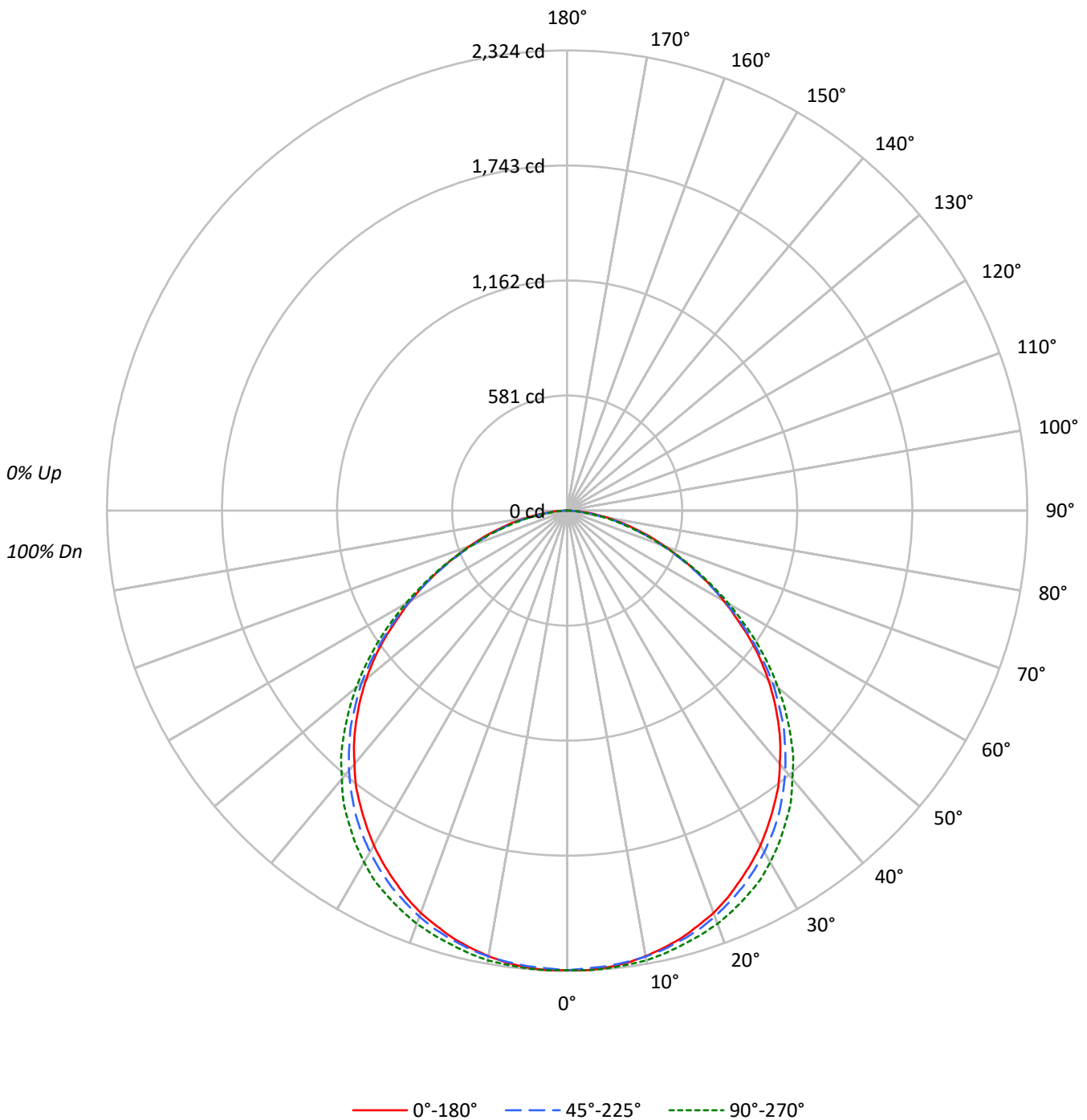
Input Watts (W): 56.358
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3123	3123	3123
5°	3128	3119	3135
10°	3122	3125	3152
15°	3112	3126	3159
20°	3096	3124	3179
25°	3063	3113	3189
30°	3034	3094	3187
35°	2990	3065	3160
40°	2935	3011	3108
45°	2868	2941	3033
50°	2772	2838	2913
55°	2638	2672	2751
60°	2462	2475	2540
65°	2261	2246	2300
70°	2055	1998	2008
75°	1827	1727	1715
80°	1586	1418	1381
85°	1301	1003	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.1	3.5
10°-20°	634.6	10.0
20°-30°	968.7	15.3
30°-40°	1167.8	18.4
40°-50°	1190.9	18.8
50°-60°	1019.2	16.1
60°-70°	702.0	11.1
70°-80°	359.9	5.7
80°-90°	83.8	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°	1823.4	28.7
0°-40°	2991.2	47.1
0°-60°	5201.3	81.9
0°-90°	6347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2321	2321	2321	2321	2321	
5°	2316	2312	2309	2316	2321	220
15°	2234	2232	2244	2261	2268	630
25°	2064	2071	2097	2133	2148	952
35°	1820	1828	1866	1907	1924	1139
45°	1507	1510	1546	1584	1594	1161
55°	1124	1117	1139	1163	1173	1003
65°	710	693	706	710	722	706
75°	352	337	332	332	330	379
85°	84	75	65	58	51	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2321.1	2321.1	2321.1	2321.1	2321.1
2.5°	2323.5	2318.7	2313.9	2318.7	2323.5
5°	2316.3	2311.5	2309.1	2316.3	2321.1
7.5°	2304.3	2299.5	2299.5	2309.1	2313.9
10°	2285.0	2282.6	2287.4	2297.0	2306.7
12.5°	2260.9	2260.9	2268.2	2280.2	2289.8
15°	2234.4	2232.0	2244.1	2260.9	2268.2
17.5°	2198.3	2200.7	2217.6	2236.8	2246.5
20°	2162.2	2164.6	2181.5	2208.0	2220.0
22.5°	2116.5	2121.3	2140.5	2174.2	2186.3
25°	2063.5	2070.7	2097.2	2133.3	2147.8
27.5°	2010.5	2017.7	2046.6	2087.6	2106.8
30°	1952.7	1962.4	1991.3	2034.6	2051.4
32.5°	1887.7	1894.9	1931.1	1974.4	1991.3
35°	1820.3	1827.5	1866.0	1907.0	1923.8
37.5°	1752.9	1752.9	1791.4	1839.6	1856.4
40°	1671.0	1673.4	1714.4	1760.1	1769.7
42.5°	1594.0	1594.0	1630.1	1673.4	1690.3
45°	1507.3	1509.7	1545.8	1584.3	1594.0
47.5°	1418.2	1418.2	1449.5	1485.6	1495.2
50°	1324.3	1319.5	1355.6	1384.5	1391.7
52.5°	1228.0	1220.8	1249.6	1273.7	1283.4
55°	1124.4	1117.2	1138.9	1163.0	1172.6
57.5°	1016.1	1006.5	1030.5	1052.2	1057.0
60°	915.0	900.5	919.8	931.8	943.9
62.5°	813.8	797.0	811.4	818.7	828.3
65°	710.3	693.4	705.5	710.3	722.3
67.5°	611.6	599.5	602.0	609.2	614.0
70°	522.5	508.0	508.0	508.0	510.5
72.5°	440.6	419.0	416.5	419.0	419.0
75°	351.5	337.1	332.3	332.3	329.9
77.5°	281.7	262.5	260.0	255.2	250.4
80°	204.7	187.8	183.0	180.6	178.2
82.5°	142.1	127.6	122.8	118.0	110.8
85°	84.3	74.6	65.0	57.8	50.6
87.5°	31.3	28.9	24.1	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)