

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: P296365

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296365  
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-L92765-W2A1-U-3000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5448.0 lumens  
Efficiency: N/A  
Efficacy: 90.5 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

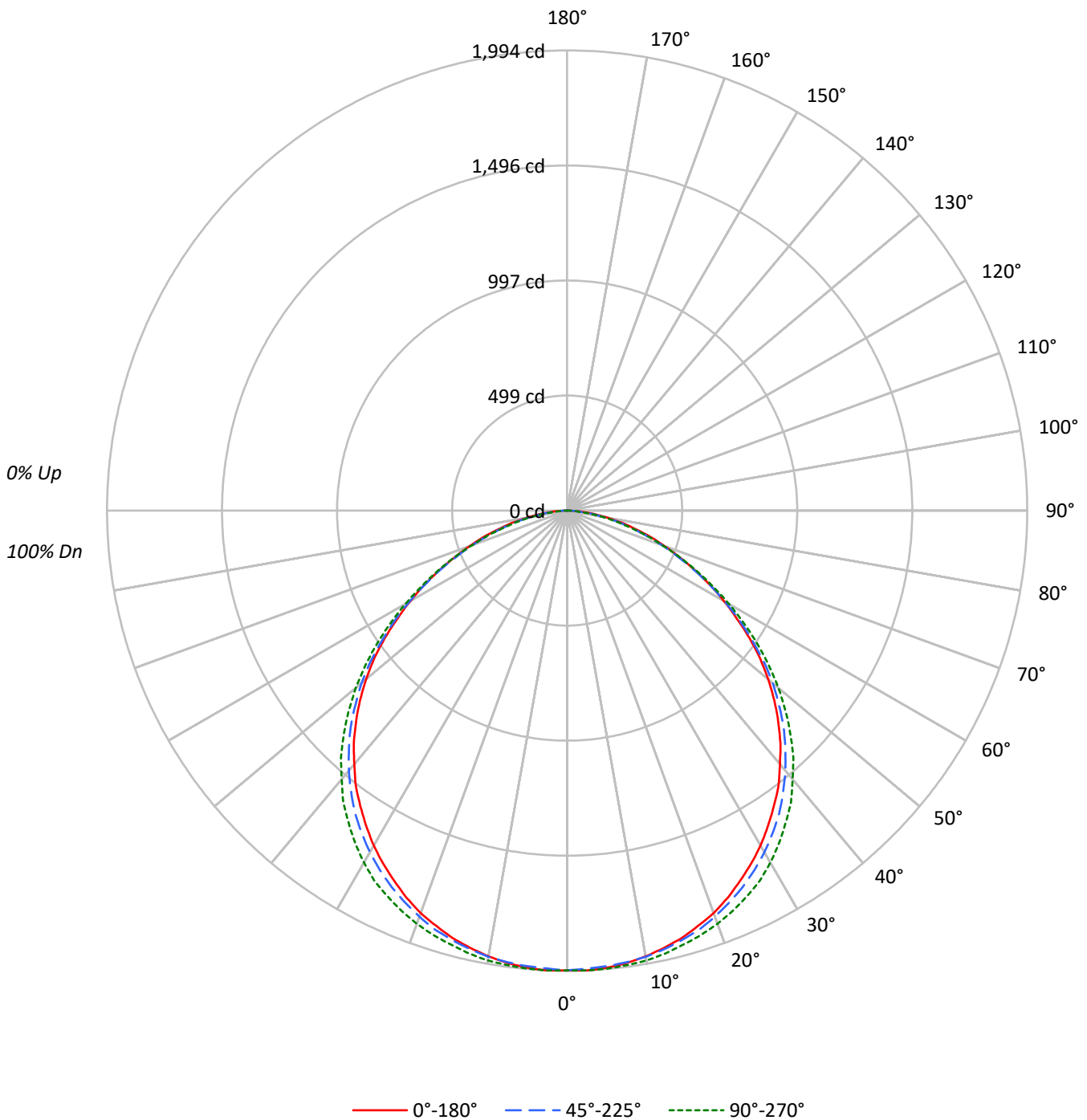
Input Watts (W): 60.171  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2681	2681	2681
5°	2685	2677	2691
10°	2680	2682	2705
15°	2672	2683	2712
20°	2657	2681	2729
25°	2629	2672	2737
30°	2604	2655	2736
35°	2566	2631	2712
40°	2519	2585	2668
45°	2462	2525	2603
50°	2379	2436	2501
55°	2264	2293	2361
60°	2113	2125	2180
65°	1941	1928	1974
70°	1764	1716	1724
75°	1568	1483	1472
80°	1361	1217	1185
85°	1116	861	670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.9	3.5
10°-20°	544.7	10.0
20°-30°	831.5	15.3
30°-40°	1002.4	18.4
40°-50°	1022.2	18.8
50°-60°	874.8	16.1
60°-70°	602.6	11.1
70°-80°	308.9	5.7
80°-90°	71.9	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°	1565.1	28.7
0°-40°	2567.5	47.1
0°-60°	4464.6	81.9
0°-90°	5448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1988	1984	1982	1988	1992	189
15°	1918	1916	1926	1941	1947	541
25°	1771	1777	1800	1831	1844	817
35°	1562	1569	1602	1637	1651	977
45°	1294	1296	1327	1360	1368	997
55°	965	959	978	998	1006	861
65°	610	595	606	610	620	606
75°	302	289	285	285	283	325
85°	72	64	56	50	43	84
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1992.4	1992.4	1992.4	1992.4	1992.4
2.5°	1994.4	1990.3	1986.2	1990.3	1994.4
5°	1988.2	1984.1	1982.0	1988.2	1992.4
7.5°	1977.9	1973.8	1973.8	1982.0	1986.2
10°	1961.4	1959.3	1963.4	1971.7	1980.0
12.5°	1940.7	1940.7	1946.9	1957.2	1965.5
15°	1918.0	1915.9	1926.2	1940.7	1946.9
17.5°	1886.9	1889.0	1903.5	1920.0	1928.3
20°	1855.9	1858.0	1872.5	1895.2	1905.6
22.5°	1816.7	1820.8	1837.3	1866.3	1876.6
25°	1771.2	1777.4	1800.1	1831.1	1843.5
27.5°	1725.7	1731.9	1756.7	1791.9	1808.4
30°	1676.1	1684.4	1709.2	1746.4	1760.9
32.5°	1620.3	1626.5	1657.5	1694.7	1709.2
35°	1562.5	1568.7	1601.7	1636.9	1651.3
37.5°	1504.6	1504.6	1537.7	1579.0	1593.5
40°	1434.3	1436.4	1471.5	1510.8	1519.1
42.5°	1368.2	1368.2	1399.2	1436.4	1450.9
45°	1293.8	1295.9	1326.9	1359.9	1368.2
47.5°	1217.3	1217.3	1244.2	1275.2	1283.5
50°	1136.7	1132.6	1163.6	1188.4	1194.6
52.5°	1054.0	1047.8	1072.6	1093.3	1101.6
55°	965.2	959.0	977.6	998.2	1006.5
57.5°	872.2	863.9	884.6	903.2	907.3
60°	785.4	773.0	789.5	799.8	810.2
62.5°	698.6	684.1	696.5	702.7	711.0
65°	609.7	595.2	605.6	609.7	620.0
67.5°	525.0	514.6	516.7	522.9	527.0
70°	448.5	436.1	436.1	436.1	438.2
72.5°	378.2	359.6	357.5	359.6	359.6
75°	301.7	289.3	285.2	285.2	283.1
77.5°	241.8	225.3	223.2	219.1	214.9
80°	175.7	161.2	157.1	155.0	152.9
82.5°	121.9	109.5	105.4	101.3	95.1
85°	72.3	64.1	55.8	49.6	43.4
87.5°	26.9	24.8	20.7	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)