

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: P296279

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296279  
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-L93050-W2A1-U-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5683.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

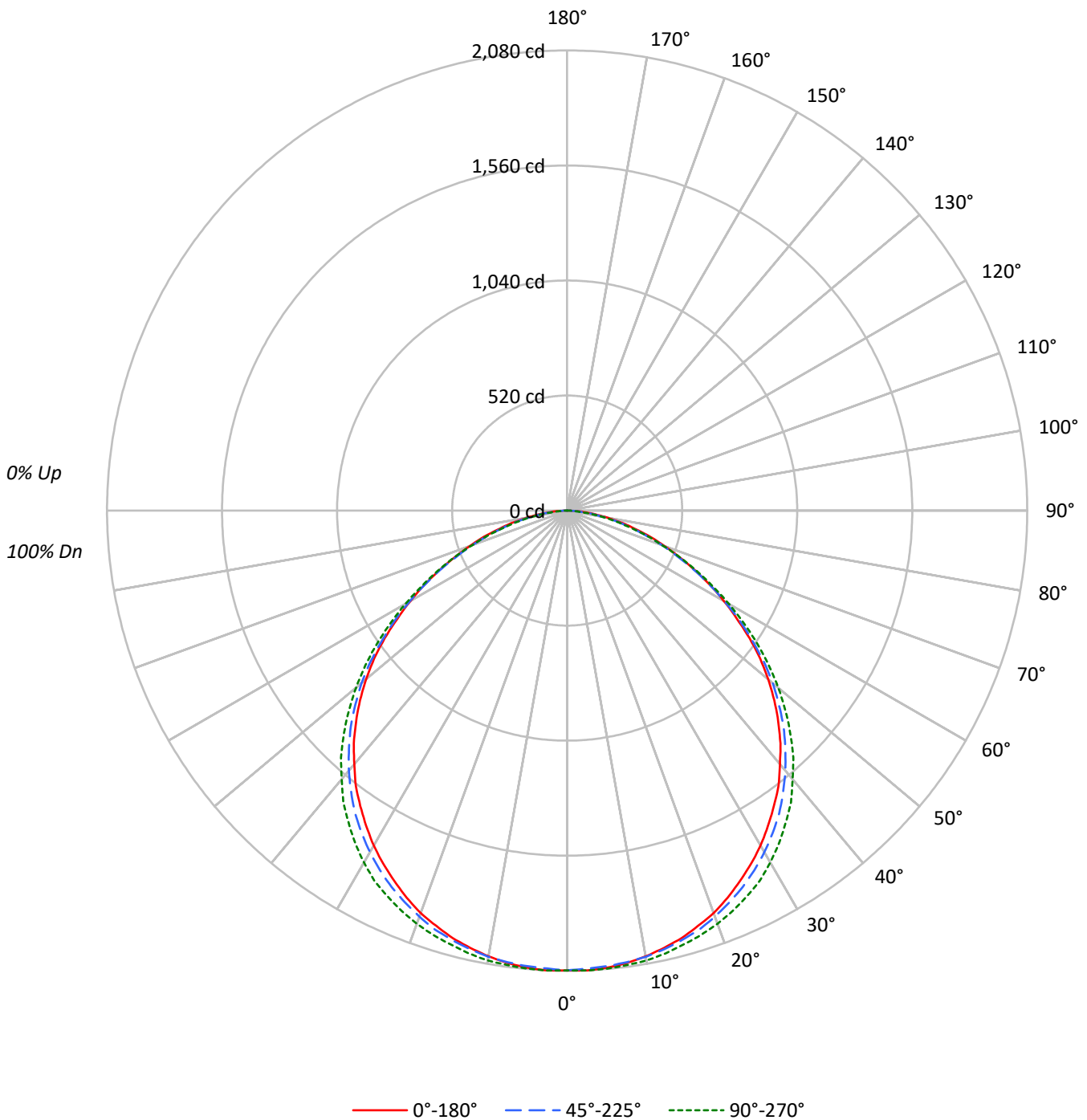
Input Watts (W): 61.845  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2796	2796	2796
5°	2801	2792	2807
10°	2795	2798	2822
15°	2787	2799	2829
20°	2772	2797	2846
25°	2743	2788	2855
30°	2716	2770	2854
35°	2677	2744	2829
40°	2628	2696	2783
45°	2568	2634	2716
50°	2482	2541	2608
55°	2362	2392	2463
60°	2204	2216	2274
65°	2025	2011	2059
70°	1840	1790	1798
75°	1637	1547	1536
80°	1420	1269	1236
85°	1166	898	699



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.1	3.5
10°-20°	568.2	10.0
20°-30°	867.3	15.3
30°-40°	1045.6	18.4
40°-50°	1066.3	18.8
50°-60°	912.5	16.1
60°-70°	628.6	11.1
70°-80°	322.2	5.7
80°-90°	75.0	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°	1632.7	28.7
0°-40°	2678.3	47.1
0°-60°	4657.1	81.9
0°-90°	5683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2074	2070	2068	2074	2078	197
15°	2001	1998	2009	2024	2031	564
25°	1848	1854	1878	1910	1923	852
35°	1630	1636	1671	1708	1723	1020
45°	1350	1352	1384	1419	1427	1040
55°	1007	1000	1020	1041	1050	898
65°	636	621	632	636	647	632
75°	315	302	298	298	295	339
85°	76	67	58	52	45	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	2080.5	2076.1	2071.8	2076.1	2080.5
5°	2074.0	2069.7	2067.5	2074.0	2078.3
7.5°	2063.2	2058.9	2058.9	2067.5	2071.8
10°	2046.0	2043.8	2048.1	2056.7	2065.4
12.5°	2024.4	2024.4	2030.9	2041.6	2050.3
15°	2000.7	1998.5	2009.3	2024.4	2030.9
17.5°	1968.3	1970.5	1985.6	2002.8	2011.5
20°	1936.0	1938.2	1953.3	1977.0	1987.7
22.5°	1895.0	1899.4	1916.6	1946.8	1957.6
25°	1847.6	1854.1	1877.8	1910.1	1923.1
27.5°	1800.2	1806.7	1832.5	1869.2	1886.4
30°	1748.4	1757.1	1782.9	1821.7	1836.8
32.5°	1690.2	1696.7	1729.0	1767.8	1782.9
35°	1629.9	1636.3	1670.8	1707.5	1722.6
37.5°	1569.5	1569.5	1604.0	1647.1	1662.2
40°	1496.2	1498.4	1535.0	1576.0	1584.6
42.5°	1427.2	1427.2	1459.5	1498.4	1513.4
45°	1349.6	1351.8	1384.1	1418.6	1427.2
47.5°	1269.8	1269.8	1297.9	1330.2	1338.8
50°	1185.7	1181.4	1213.8	1239.6	1246.1
52.5°	1099.5	1093.0	1118.9	1140.5	1149.1
55°	1006.8	1000.3	1019.7	1041.3	1049.9
57.5°	909.8	901.2	922.7	942.1	946.4
60°	819.2	806.3	823.6	834.3	845.1
62.5°	728.7	713.6	726.5	733.0	741.6
65°	636.0	620.9	631.7	636.0	646.8
67.5°	547.6	536.8	539.0	545.4	549.8
70°	467.8	454.9	454.9	454.9	457.1
72.5°	394.5	375.1	373.0	375.1	375.1
75°	314.8	301.8	297.5	297.5	295.4
77.5°	252.2	235.0	232.8	228.5	224.2
80°	183.3	168.2	163.8	161.7	159.5
82.5°	127.2	114.3	110.0	105.6	99.2
85°	75.5	66.8	58.2	51.7	45.3
87.5°	28.0	25.9	21.6	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)