

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: P296367

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296367  
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-4000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5905.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 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

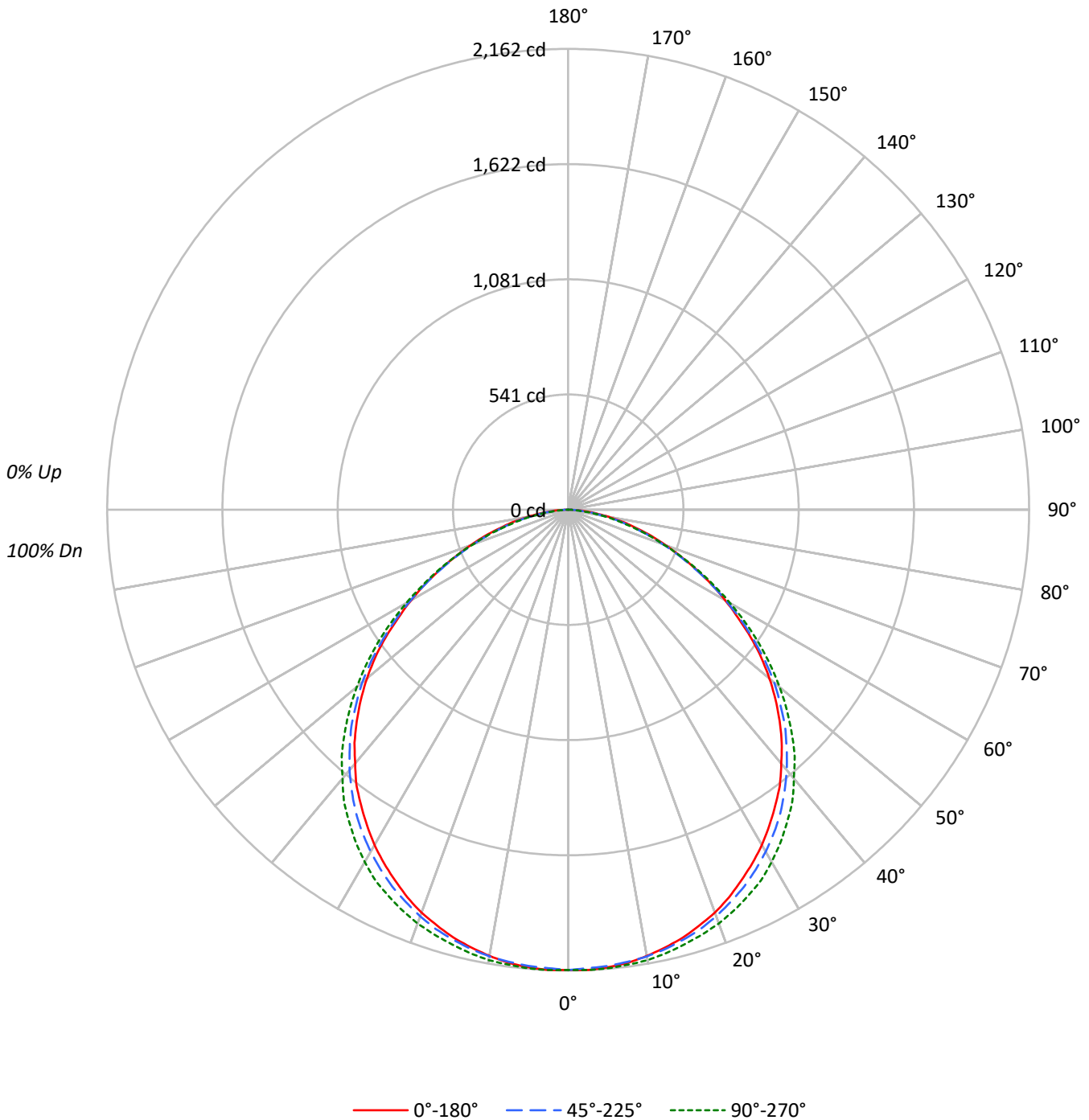
Input Watts (W): 61.473  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2906	2906	2906
5°	2911	2902	2917
10°	2905	2908	2932
15°	2896	2908	2939
20°	2880	2906	2957
25°	2850	2897	2966
30°	2822	2878	2965
35°	2782	2852	2940
40°	2731	2801	2892
45°	2668	2737	2822
50°	2579	2640	2710
55°	2454	2486	2559
60°	2291	2303	2363
65°	2104	2090	2139
70°	1912	1860	1868
75°	1700	1607	1595
80°	1475	1319	1285
85°	1210	934	726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.8	3.5
10°-20°	590.4	10.0
20°-30°	901.2	15.3
30°-40°	1086.5	18.4
40°-50°	1108.0	18.8
50°-60°	948.2	16.1
60°-70°	653.2	11.1
70°-80°	334.8	5.7
80°-90°	77.9	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°	1696.4	28.7
0°-40°	2782.9	47.1
0°-60°	4839.1	81.9
0°-90°	5905.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5905.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2160	2160	2160	2160	2160	
5°	2155	2150	2148	2155	2160	205
15°	2079	2077	2088	2104	2110	586
25°	1920	1926	1951	1985	1998	885
35°	1694	1700	1736	1774	1790	1059
45°	1402	1405	1438	1474	1483	1080
55°	1046	1039	1060	1082	1091	933
65°	661	645	656	661	672	657
75°	327	314	309	309	307	353
85°	78	69	60	54	47	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2159.5	2159.5	2159.5	2159.5	2159.5
2.5°	2161.7	2157.2	2152.8	2157.2	2161.7
5°	2155.0	2150.5	2148.3	2155.0	2159.5
7.5°	2143.8	2139.3	2139.3	2148.3	2152.8
10°	2125.9	2123.6	2128.1	2137.1	2146.0
12.5°	2103.5	2103.5	2110.2	2121.4	2130.4
15°	2078.8	2076.6	2087.8	2103.5	2110.2
17.5°	2045.2	2047.5	2063.2	2081.1	2090.0
20°	2011.6	2013.9	2029.6	2054.2	2065.4
22.5°	1969.1	1973.6	1991.5	2022.8	2034.0
25°	1919.8	1926.5	1951.1	1984.8	1998.2
27.5°	1870.5	1877.2	1904.1	1942.2	1960.1
30°	1816.7	1825.7	1852.6	1892.9	1908.6
32.5°	1756.3	1763.0	1796.6	1836.9	1852.6
35°	1693.5	1700.3	1736.1	1774.2	1789.9
37.5°	1630.8	1630.8	1666.7	1711.5	1727.1
40°	1554.6	1556.9	1595.0	1637.5	1646.5
42.5°	1483.0	1483.0	1516.6	1556.9	1572.6
45°	1402.3	1404.6	1438.2	1474.0	1483.0
47.5°	1319.4	1319.4	1348.6	1382.2	1391.1
50°	1232.1	1227.6	1261.2	1288.1	1294.8
52.5°	1142.5	1135.7	1162.6	1185.0	1194.0
55°	1046.1	1039.4	1059.6	1082.0	1090.9
57.5°	945.3	936.4	958.8	978.9	983.4
60°	851.2	837.8	855.7	866.9	878.1
62.5°	757.2	741.5	754.9	761.6	770.6
65°	660.8	645.2	656.4	660.8	672.0
67.5°	569.0	557.8	560.0	566.8	571.2
70°	486.1	472.7	472.7	472.7	474.9
72.5°	409.9	389.8	387.5	389.8	389.8
75°	327.1	313.6	309.1	309.1	306.9
77.5°	262.1	244.2	241.9	237.5	233.0
80°	190.4	174.7	170.2	168.0	165.8
82.5°	132.2	118.7	114.2	109.8	103.0
85°	78.4	69.4	60.5	53.8	47.0
87.5°	29.1	26.9	22.4	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)