

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: P296130

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296130  
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-LD5-67-RDP-UNV-L83050-W2A1-U-4000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5831.0 lumens  
Efficiency: N/A  
Efficacy: 117.2 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

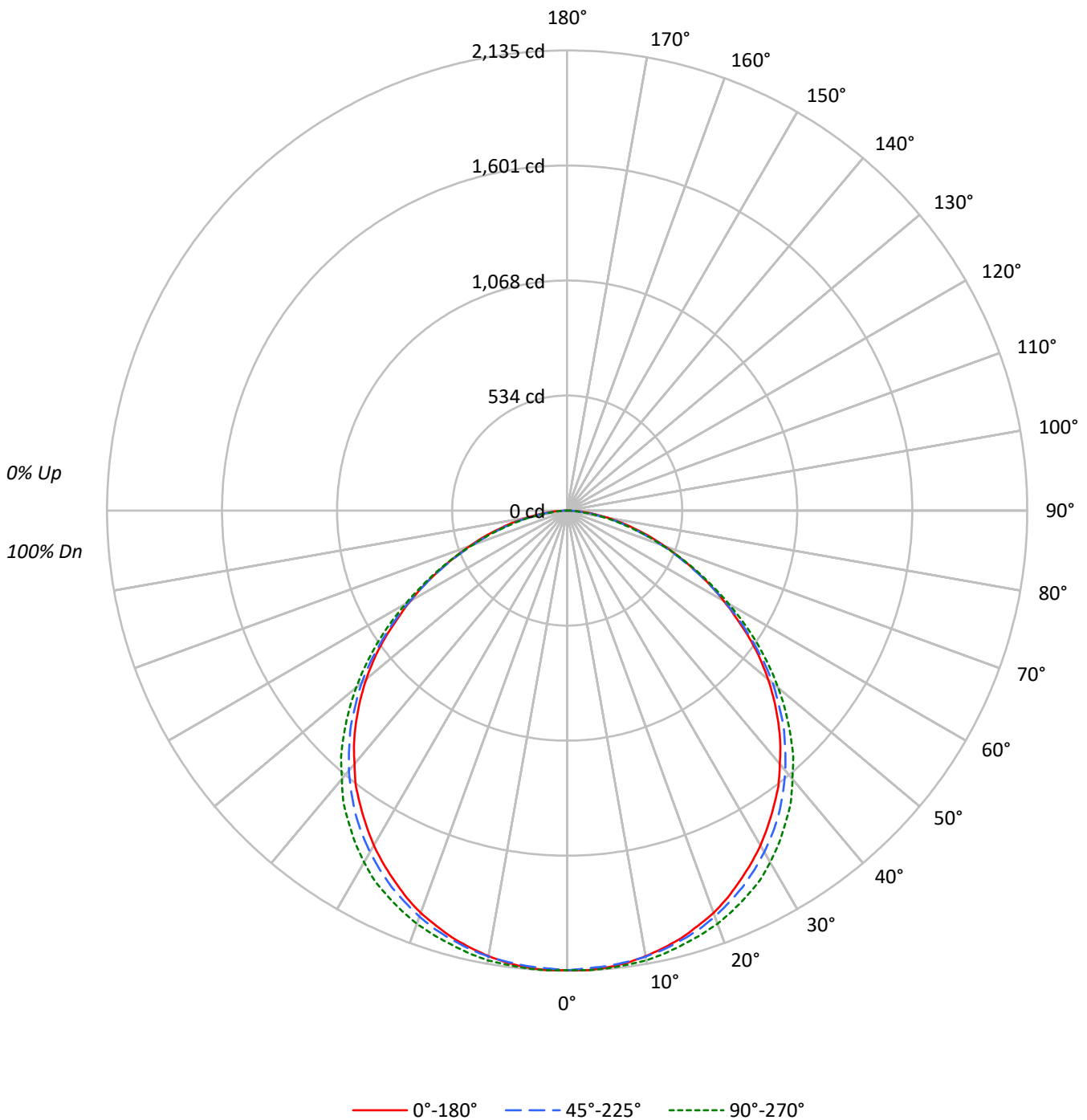
Input Watts (W): 49.755  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2869	2869	2869
5°	2874	2865	2880
10°	2868	2871	2895
15°	2859	2872	2903
20°	2844	2870	2920
25°	2814	2860	2929
30°	2787	2842	2928
35°	2747	2816	2903
40°	2696	2766	2856
45°	2635	2702	2786
50°	2547	2607	2676
55°	2423	2454	2527
60°	2262	2274	2333
65°	2078	2063	2113
70°	1888	1836	1845
75°	1679	1587	1576
80°	1457	1303	1268
85°	1195	922	718



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.2	3.5
10°-20°	583.0	10.0
20°-30°	889.9	15.3
30°-40°	1072.9	18.4
40°-50°	1094.1	18.8
50°-60°	936.3	16.1
60°-70°	645.0	11.1
70°-80°	330.6	5.7
80°-90°	77.0	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°	1675.2	28.7
0°-40°	2748.0	47.1
0°-60°	4778.4	81.9
0°-90°	5831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2132	2132	2132	2132	2132	
5°	2128	2124	2121	2128	2132	202
15°	2053	2051	2062	2077	2084	579
25°	1896	1902	1927	1960	1973	874
35°	1672	1679	1714	1752	1767	1046
45°	1385	1387	1420	1456	1464	1067
55°	1033	1026	1046	1068	1077	922
65°	653	637	648	653	664	648
75°	323	310	305	305	303	348
85°	77	69	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°	2132.4	2132.4	2132.4	2132.4	2132.4
2.5°	2134.6	2130.2	2125.8	2130.2	2134.6
5°	2128.0	2123.6	2121.4	2128.0	2132.4
7.5°	2116.9	2112.5	2112.5	2121.4	2125.8
10°	2099.2	2097.0	2101.5	2110.3	2119.1
12.5°	2077.1	2077.1	2083.8	2094.8	2103.7
15°	2052.8	2050.6	2061.6	2077.1	2083.8
17.5°	2019.6	2021.8	2037.3	2055.0	2063.8
20°	1986.4	1988.6	2004.1	2028.5	2039.5
22.5°	1944.4	1948.8	1966.5	1997.5	2008.5
25°	1895.7	1902.4	1926.7	1959.9	1973.2
27.5°	1847.1	1853.7	1880.2	1917.8	1935.5
30°	1794.0	1802.8	1829.4	1869.2	1884.7
32.5°	1734.2	1740.9	1774.1	1813.9	1829.4
35°	1672.3	1678.9	1714.3	1751.9	1767.4
37.5°	1610.4	1610.4	1645.8	1690.0	1705.5
40°	1535.2	1537.4	1575.0	1617.0	1625.9
42.5°	1464.4	1464.4	1497.6	1537.4	1552.9
45°	1384.7	1387.0	1420.1	1455.5	1464.4
47.5°	1302.9	1302.9	1331.7	1364.8	1373.7
50°	1216.6	1212.2	1245.4	1271.9	1278.6
52.5°	1128.1	1121.5	1148.1	1170.2	1179.0
55°	1033.0	1026.4	1046.3	1068.4	1077.3
57.5°	933.5	924.6	946.8	966.7	971.1
60°	840.6	827.3	845.0	856.1	867.1
62.5°	747.7	732.2	745.5	752.1	760.9
65°	652.6	637.1	648.1	652.6	663.6
67.5°	561.9	550.8	553.0	559.6	564.1
70°	480.0	466.7	466.7	466.7	469.0
72.5°	404.8	384.9	382.7	384.9	384.9
75°	323.0	309.7	305.3	305.3	303.1
77.5°	258.8	241.1	238.9	234.5	230.1
80°	188.0	172.5	168.1	165.9	163.7
82.5°	130.5	117.2	112.8	108.4	101.8
85°	77.4	68.6	59.7	53.1	46.5
87.5°	28.8	26.5	22.1	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)