

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: P296371

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296371  
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-5700K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6303.0 lumens  
Efficiency: N/A  
Efficacy: 100.7 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

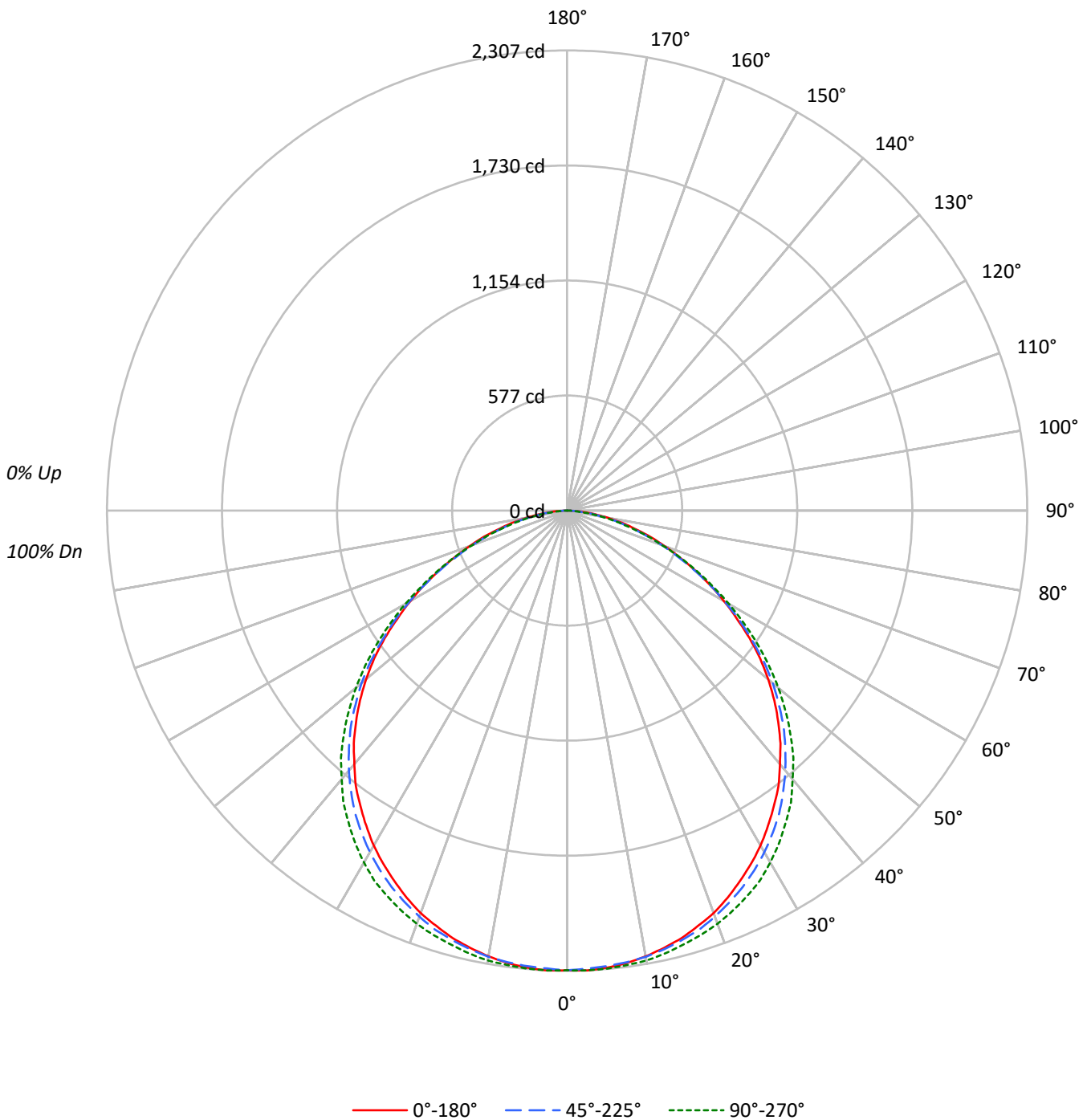
Input Watts (W): 62.589  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3101	3101	3101
5°	3107	3097	3113
10°	3100	3104	3130
15°	3091	3104	3137
20°	3074	3102	3157
25°	3042	3092	3166
30°	3013	3072	3165
35°	2969	3044	3138
40°	2915	2990	3087
45°	2848	2921	3012
50°	2753	2818	2893
55°	2619	2653	2732
60°	2445	2458	2522
65°	2246	2230	2284
70°	2041	1985	1994
75°	1815	1716	1703
80°	1574	1408	1371
85°	1292	997	775



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.6	3.5
10°-20°	630.2	10.0
20°-30°	962.0	15.3
30°-40°	1159.7	18.4
40°-50°	1182.6	18.8
50°-60°	1012.1	16.1
60°-70°	697.2	11.1
70°-80°	357.4	5.7
80°-90°	83.2	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°	1810.8	28.7
0°-40°	2970.5	47.1
0°-60°	5165.2	81.9
0°-90°	6303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6303.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2300	2296	2293	2300	2305	219
15°	2219	2217	2228	2245	2252	626
25°	2049	2056	2083	2118	2133	945
35°	1808	1815	1853	1894	1910	1131
45°	1497	1499	1535	1573	1583	1153
55°	1117	1110	1131	1155	1164	996
65°	705	689	701	705	717	701
75°	349	335	330	330	328	376
85°	84	74	65	57	50	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2305.0	2305.0	2305.0	2305.0	2305.0
2.5°	2307.4	2302.6	2297.9	2302.6	2307.4
5°	2300.2	2295.5	2293.1	2300.2	2305.0
7.5°	2288.3	2283.5	2283.5	2293.1	2297.9
10°	2269.2	2266.8	2271.6	2281.1	2290.7
12.5°	2245.3	2245.3	2252.4	2264.4	2273.9
15°	2219.0	2216.6	2228.5	2245.3	2252.4
17.5°	2183.1	2185.5	2202.2	2221.3	2230.9
20°	2147.2	2149.6	2166.3	2192.6	2204.6
22.5°	2101.8	2106.6	2125.7	2159.2	2171.1
25°	2049.2	2056.4	2082.7	2118.5	2132.9
27.5°	1996.6	2003.8	2032.4	2073.1	2092.2
30°	1939.2	1948.8	1977.4	2020.5	2037.2
32.5°	1874.6	1881.8	1917.7	1960.7	1977.4
35°	1807.7	1814.9	1853.1	1893.8	1910.5
37.5°	1740.7	1740.7	1779.0	1826.8	1843.5
40°	1659.4	1661.8	1702.5	1747.9	1757.5
42.5°	1582.9	1582.9	1618.8	1661.8	1678.6
45°	1496.8	1499.2	1535.1	1573.4	1582.9
47.5°	1408.4	1408.4	1439.4	1475.3	1484.9
50°	1315.1	1310.3	1346.2	1374.9	1382.1
52.5°	1219.5	1212.3	1241.0	1264.9	1274.5
55°	1116.6	1109.5	1131.0	1154.9	1164.5
57.5°	1009.0	999.5	1023.4	1044.9	1049.7
60°	908.6	894.3	913.4	925.4	937.3
62.5°	808.2	791.5	805.8	813.0	822.5
65°	705.4	688.6	700.6	705.4	717.3
67.5°	607.3	595.4	597.8	605.0	609.7
70°	518.9	504.5	504.5	504.5	506.9
72.5°	437.6	416.1	413.7	416.1	416.1
75°	349.1	334.8	330.0	330.0	327.6
77.5°	279.8	260.6	258.2	253.5	248.7
80°	203.2	186.5	181.7	179.3	176.9
82.5°	141.1	126.7	121.9	117.2	110.0
85°	83.7	74.1	64.6	57.4	50.2
87.5°	31.1	28.7	23.9	21.5	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)