

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: P296358

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296358  
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-LD5-74-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: 5444.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

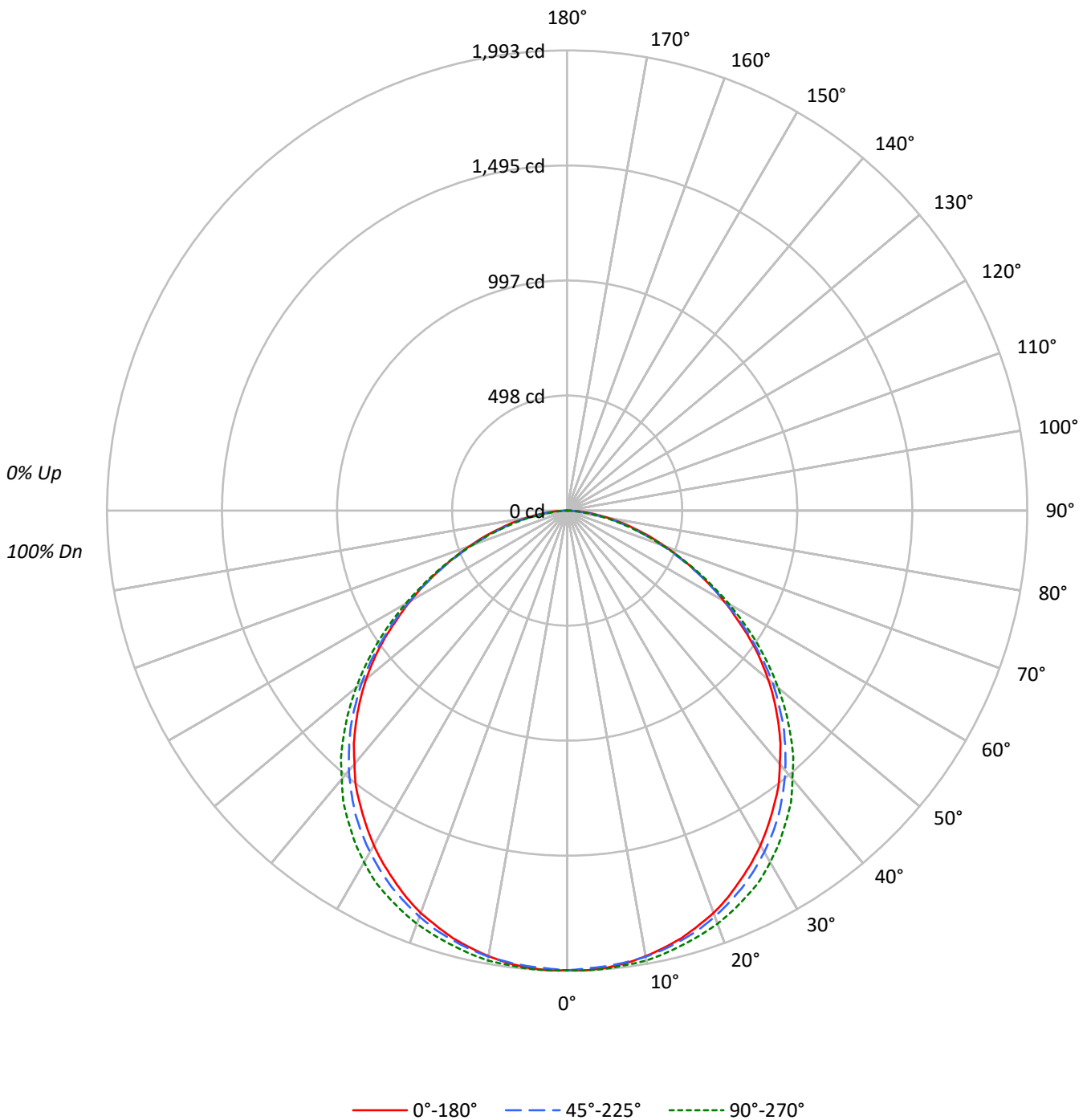
Input Watts (W): 55.707  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2679	2679	2679
5°	2683	2675	2689
10°	2678	2681	2703
15°	2670	2681	2710
20°	2655	2679	2727
25°	2628	2670	2735
30°	2602	2654	2734
35°	2564	2629	2710
40°	2517	2583	2666
45°	2460	2523	2602
50°	2378	2434	2499
55°	2263	2292	2359
60°	2112	2123	2179
65°	1940	1926	1973
70°	1763	1714	1722
75°	1567	1482	1471
80°	1360	1216	1184
85°	1116	861	670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.8	3.5
10°-20°	544.3	10.0
20°-30°	830.9	15.3
30°-40°	1001.7	18.4
40°-50°	1021.5	18.8
50°-60°	874.2	16.1
60°-70°	602.2	11.1
70°-80°	308.7	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°	1564.0	28.7
0°-40°	2565.6	47.1
0°-60°	4461.3	81.9
0°-90°	5444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5444.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1991	1991	1991	1991	1991	
5°	1987	1983	1981	1987	1991	189
15°	1916	1914	1925	1939	1946	541
25°	1770	1776	1799	1830	1842	816
35°	1561	1568	1601	1636	1650	977
45°	1293	1295	1326	1359	1367	996
55°	964	958	977	998	1006	860
65°	609	595	605	609	620	605
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°	1990.9	1990.9	1990.9	1990.9	1990.9
2.5°	1993.0	1988.8	1984.7	1988.8	1993.0
5°	1986.8	1982.6	1980.6	1986.8	1990.9
7.5°	1976.4	1972.3	1972.3	1980.6	1984.7
10°	1959.9	1957.8	1962.0	1970.2	1978.5
12.5°	1939.3	1939.3	1945.5	1955.8	1964.0
15°	1916.5	1914.5	1924.8	1939.3	1945.5
17.5°	1885.6	1887.6	1902.1	1918.6	1926.9
20°	1854.6	1856.7	1871.1	1893.8	1904.2
22.5°	1815.3	1819.5	1836.0	1864.9	1875.2
25°	1769.9	1776.1	1798.8	1829.8	1842.2
27.5°	1724.5	1730.7	1755.5	1790.6	1807.1
30°	1674.9	1683.2	1708.0	1745.1	1759.6
32.5°	1619.1	1625.3	1656.3	1693.5	1708.0
35°	1561.3	1567.5	1600.6	1635.7	1650.1
37.5°	1503.5	1503.5	1536.5	1577.8	1592.3
40°	1433.3	1435.3	1470.5	1509.7	1518.0
42.5°	1367.2	1367.2	1398.2	1435.3	1449.8
45°	1292.8	1294.9	1325.9	1358.9	1367.2
47.5°	1216.4	1216.4	1243.3	1274.3	1282.5
50°	1135.9	1131.8	1162.7	1187.5	1193.7
52.5°	1053.3	1047.1	1071.9	1092.5	1100.8
55°	964.5	958.3	976.9	997.5	1005.8
57.5°	871.5	863.3	883.9	902.5	906.6
60°	784.8	772.4	788.9	799.2	809.6
62.5°	698.1	683.6	696.0	702.2	710.4
65°	609.2	594.8	605.1	609.2	619.6
67.5°	524.6	514.2	516.3	522.5	526.6
70°	448.2	435.8	435.8	435.8	437.8
72.5°	377.9	359.4	357.3	359.4	359.4
75°	301.5	289.1	285.0	285.0	282.9
77.5°	241.6	225.1	223.0	218.9	214.8
80°	175.5	161.1	157.0	154.9	152.8
82.5°	121.8	109.5	105.3	101.2	95.0
85°	72.3	64.0	55.8	49.6	43.4
87.5°	26.8	24.8	20.7	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)