

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: P296219

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296219  
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-L82765-W2A1-U-4500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6262.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 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

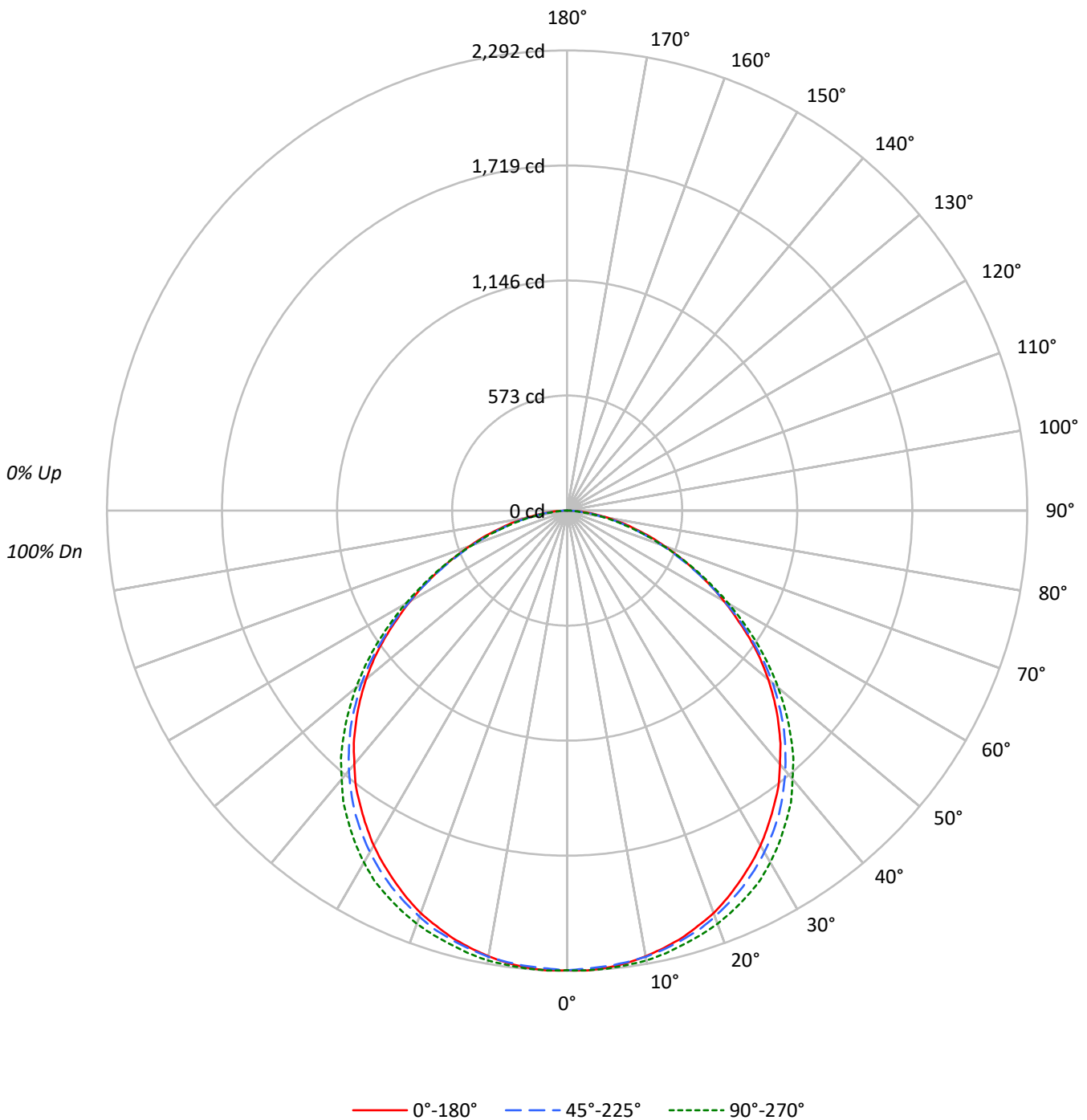
Input Watts (W): 56.079  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3081	3081	3081
5°	3087	3077	3093
10°	3080	3083	3109
15°	3071	3084	3117
20°	3055	3082	3136
25°	3022	3072	3146
30°	2993	3052	3145
35°	2950	3024	3118
40°	2896	2971	3067
45°	2830	2902	2992
50°	2735	2799	2874
55°	2602	2636	2714
60°	2429	2442	2506
65°	2231	2216	2269
70°	2028	1972	1981
75°	1803	1704	1692
80°	1564	1399	1362
85°	1283	990	770



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.2	3.5
10°-20°	626.1	10.0
20°-30°	955.7	15.3
30°-40°	1152.2	18.4
40°-50°	1174.9	18.8
50°-60°	1005.5	16.1
60°-70°	692.6	11.1
70°-80°	355.1	5.7
80°-90°	82.7	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°	1799.0	28.7
0°-40°	2951.1	47.1
0°-60°	5131.6	81.9
0°-90°	6262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6262.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2290	2290	2290	2290	2290	
5°	2285	2280	2278	2285	2290	217
15°	2204	2202	2214	2231	2238	622
25°	2036	2043	2069	2105	2119	939
35°	1796	1803	1841	1881	1898	1124
45°	1487	1490	1525	1563	1573	1146
55°	1109	1102	1124	1147	1157	990
65°	701	684	696	701	713	696
75°	347	333	328	328	326	374
85°	83	74	64	57	50	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2290.0	2290.0	2290.0	2290.0	2290.0
2.5°	2292.4	2287.7	2282.9	2287.7	2292.4
5°	2285.3	2280.5	2278.2	2285.3	2290.0
7.5°	2273.4	2268.7	2268.7	2278.2	2282.9
10°	2254.4	2252.0	2256.8	2266.3	2275.8
12.5°	2230.6	2230.6	2237.8	2249.7	2259.2
15°	2204.5	2202.1	2214.0	2230.6	2237.8
17.5°	2168.9	2171.3	2187.9	2206.9	2216.4
20°	2133.3	2135.6	2152.3	2178.4	2190.3
22.5°	2088.1	2092.9	2111.9	2145.1	2157.0
25°	2035.9	2043.0	2069.1	2104.7	2119.0
27.5°	1983.6	1990.7	2019.2	2059.6	2078.6
30°	1926.6	1936.1	1964.6	2007.3	2024.0
32.5°	1862.4	1869.6	1905.2	1948.0	1964.6
35°	1795.9	1803.0	1841.1	1881.4	1898.1
37.5°	1729.4	1729.4	1767.4	1814.9	1831.6
40°	1648.6	1651.0	1691.4	1736.5	1746.0
42.5°	1572.6	1572.6	1608.3	1651.0	1667.6
45°	1487.1	1489.5	1525.1	1563.1	1572.6
47.5°	1399.2	1399.2	1430.1	1465.7	1475.2
50°	1306.6	1301.8	1337.4	1365.9	1373.1
52.5°	1211.5	1204.4	1232.9	1256.7	1266.2
55°	1109.4	1102.3	1123.6	1147.4	1156.9
57.5°	1002.5	993.0	1016.7	1038.1	1042.9
60°	902.7	888.5	907.5	919.3	931.2
62.5°	802.9	786.3	800.6	807.7	817.2
65°	700.8	684.2	696.0	700.8	712.7
67.5°	603.4	591.5	593.9	601.0	605.8
70°	515.5	501.2	501.2	501.2	503.6
72.5°	434.7	413.3	411.0	413.3	413.3
75°	346.8	332.6	327.8	327.8	325.5
77.5°	277.9	258.9	256.6	251.8	247.1
80°	201.9	185.3	180.5	178.2	175.8
82.5°	140.2	125.9	121.2	116.4	109.3
85°	83.1	73.6	64.1	57.0	49.9
87.5°	30.9	28.5	23.8	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)