

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: P296362

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296362  
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-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: 5811.0 lumens  
Efficiency: N/A  
Efficacy: 102.4 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

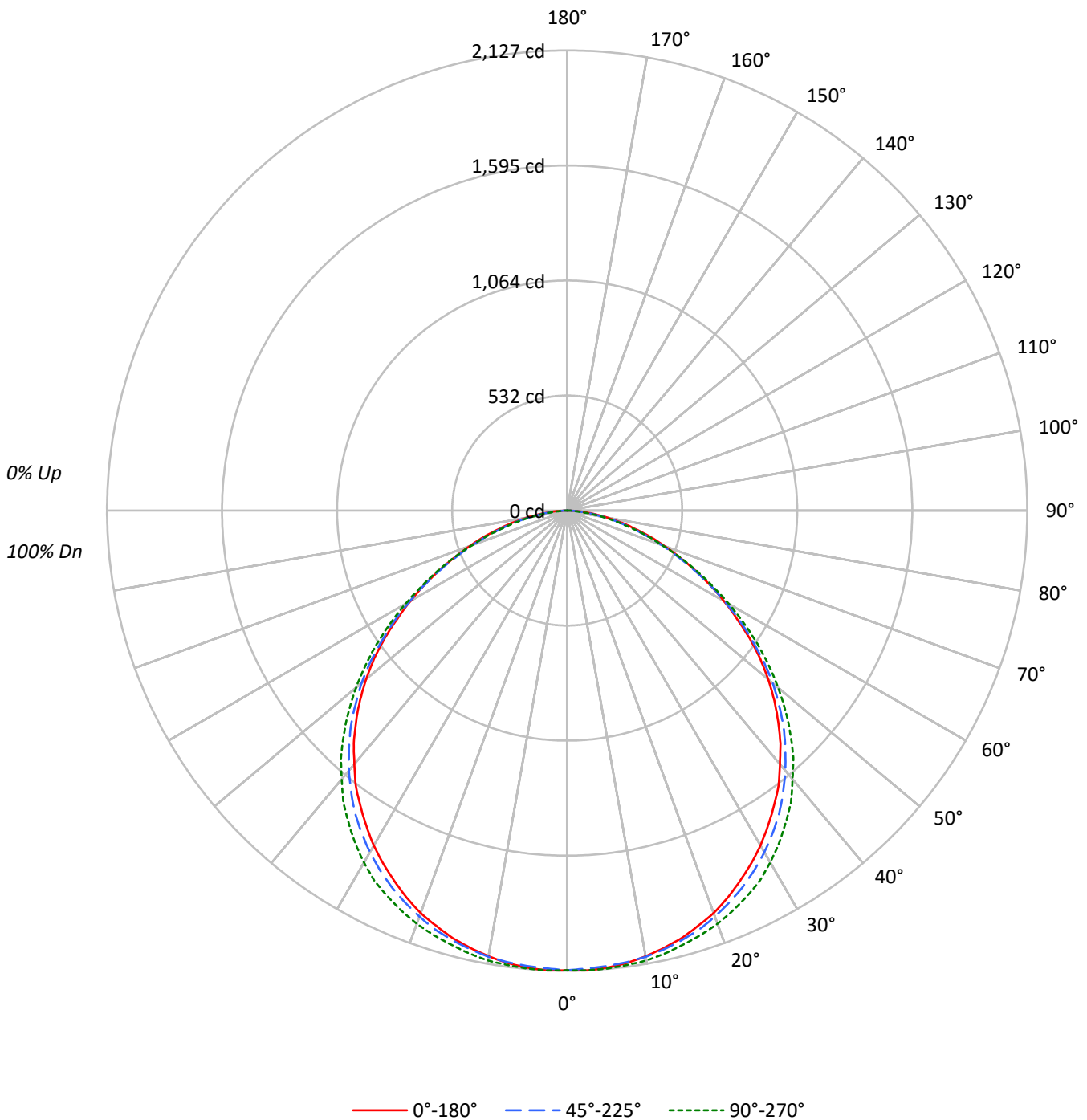
Input Watts (W): 56.73  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2859	2859	2859
5°	2864	2855	2870
10°	2858	2861	2885
15°	2850	2862	2893
20°	2834	2860	2910
25°	2805	2851	2919
30°	2778	2832	2918
35°	2737	2806	2893
40°	2687	2757	2846
45°	2626	2693	2777
50°	2538	2598	2667
55°	2415	2446	2518
60°	2254	2266	2326
65°	2070	2056	2105
70°	1882	1830	1838
75°	1673	1581	1570
80°	1452	1298	1264
85°	1192	919	715



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	3.5
10°-20°	581.0	10.0
20°-30°	886.9	15.3
30°-40°	1069.2	18.4
40°-50°	1090.3	18.8
50°-60°	933.1	16.1
60°-70°	642.7	11.1
70°-80°	329.5	5.7
80°-90°	76.7	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°	1669.4	28.7
0°-40°	2738.6	47.1
0°-60°	4762.1	81.9
0°-90°	5811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2125	2125	2125	2125	2125	
5°	2121	2116	2114	2121	2125	202
15°	2046	2044	2055	2070	2077	577
25°	1889	1896	1920	1953	1966	871
35°	1667	1673	1708	1746	1761	1043
45°	1380	1382	1415	1450	1459	1063
55°	1030	1023	1043	1065	1074	918
65°	650	635	646	650	661	646
75°	322	309	304	304	302	347
85°	77	68	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°	2125.1	2125.1	2125.1	2125.1	2125.1
2.5°	2127.3	2122.9	2118.5	2122.9	2127.3
5°	2120.7	2116.3	2114.1	2120.7	2125.1
7.5°	2109.7	2105.3	2105.3	2114.1	2118.5
10°	2092.0	2089.8	2094.2	2103.1	2111.9
12.5°	2070.0	2070.0	2076.6	2087.6	2096.4
15°	2045.7	2043.5	2054.6	2070.0	2076.6
17.5°	2012.7	2014.9	2030.3	2047.9	2056.8
20°	1979.6	1981.8	1997.2	2021.5	2032.5
22.5°	1937.7	1942.1	1959.8	1990.6	2001.7
25°	1889.2	1895.8	1920.1	1953.2	1966.4
27.5°	1840.7	1847.3	1873.8	1911.3	1928.9
30°	1787.8	1796.6	1823.1	1862.8	1878.2
32.5°	1728.3	1734.9	1768.0	1807.7	1823.1
35°	1666.6	1673.2	1708.5	1745.9	1761.4
37.5°	1604.9	1604.9	1640.1	1684.2	1699.6
40°	1529.9	1532.1	1569.6	1611.5	1620.3
42.5°	1459.4	1459.4	1492.4	1532.1	1547.5
45°	1380.0	1382.2	1415.3	1450.5	1459.4
47.5°	1298.4	1298.4	1327.1	1360.2	1369.0
50°	1212.5	1208.0	1241.1	1267.6	1274.2
52.5°	1124.3	1117.7	1144.1	1166.2	1175.0
55°	1029.5	1022.9	1042.7	1064.8	1073.6
57.5°	930.3	921.5	943.5	963.4	967.8
60°	837.7	824.5	842.1	853.1	864.2
62.5°	745.1	729.7	742.9	749.5	758.3
65°	650.3	634.9	645.9	650.3	661.3
67.5°	559.9	548.9	551.1	557.7	562.1
70°	478.4	465.1	465.1	465.1	467.3
72.5°	403.4	383.6	381.4	383.6	383.6
75°	321.9	308.6	304.2	304.2	302.0
77.5°	257.9	240.3	238.1	233.7	229.3
80°	187.4	171.9	167.5	165.3	163.1
82.5°	130.1	116.8	112.4	108.0	101.4
85°	77.2	68.3	59.5	52.9	46.3
87.5°	28.7	26.5	22.0	19.8	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)