

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: P296226

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296226  
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-L82765-W2A1-U-3500K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6530.0 lumens  
Efficiency: N/A  
Efficacy: 107.0 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

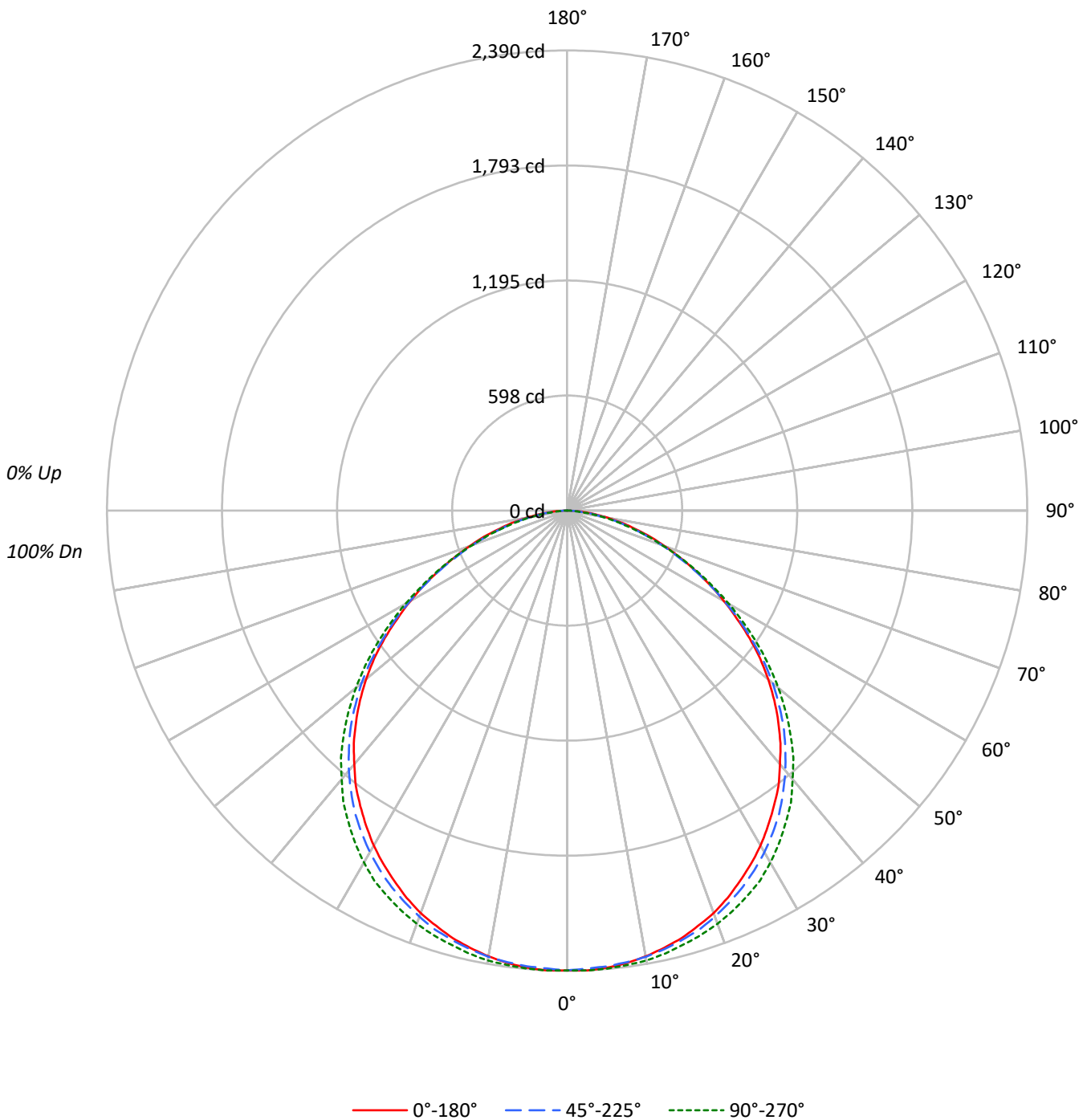
Input Watts (W): 61.008  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3213	3213	3213
5°	3219	3209	3225
10°	3212	3215	3242
15°	3202	3216	3250
20°	3185	3214	3270
25°	3152	3203	3280
30°	3121	3183	3279
35°	3076	3154	3251
40°	3020	3098	3198
45°	2951	3026	3120
50°	2852	2919	2997
55°	2714	2749	2830
60°	2533	2546	2613
65°	2327	2311	2366
70°	2115	2056	2066
75°	1880	1777	1764
80°	1632	1459	1420
85°	1338	1033	803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	3.5
10°-20°	652.9	10.0
20°-30°	996.6	15.3
30°-40°	1201.5	18.4
40°-50°	1225.2	18.8
50°-60°	1048.6	16.1
60°-70°	722.3	11.1
70°-80°	370.3	5.7
80°-90°	86.2	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°	1876.0	28.7
0°-40°	3077.5	47.1
0°-60°	5351.3	81.9
0°-90°	6530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6530.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2388	2388	2388	2388	2388	
5°	2383	2378	2376	2383	2388	226
15°	2299	2296	2309	2326	2334	648
25°	2123	2130	2158	2195	2210	979
35°	1873	1880	1920	1962	1979	1172
45°	1551	1553	1590	1630	1640	1195
55°	1157	1149	1172	1196	1206	1032
65°	731	713	726	731	743	726
75°	362	347	342	342	339	390
85°	87	77	67	60	52	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2388.0	2388.0	2388.0	2388.0	2388.0
2.5°	2390.5	2385.6	2380.6	2385.6	2390.5
5°	2383.1	2378.1	2375.7	2383.1	2388.0
7.5°	2370.7	2365.8	2365.8	2375.7	2380.6
10°	2350.9	2348.4	2353.4	2363.3	2373.2
12.5°	2326.1	2326.1	2333.5	2345.9	2355.8
15°	2298.9	2296.4	2308.8	2326.1	2333.5
17.5°	2261.7	2264.2	2281.5	2301.3	2311.3
20°	2224.5	2227.0	2244.4	2271.6	2284.0
22.5°	2177.5	2182.4	2202.3	2236.9	2249.3
25°	2123.0	2130.4	2157.7	2194.8	2209.7
27.5°	2068.5	2075.9	2105.6	2147.8	2167.6
30°	2009.0	2018.9	2048.7	2093.3	2110.6
32.5°	1942.1	1949.6	1986.7	2031.3	2048.7
35°	1872.8	1880.2	1919.9	1962.0	1979.3
37.5°	1803.4	1803.4	1843.1	1892.6	1909.9
40°	1719.2	1721.7	1763.8	1810.9	1820.8
42.5°	1639.9	1639.9	1677.1	1721.7	1739.0
45°	1550.7	1553.2	1590.4	1630.0	1639.9
47.5°	1459.1	1459.1	1491.3	1528.4	1538.4
50°	1362.5	1357.5	1394.7	1424.4	1431.8
52.5°	1263.4	1256.0	1285.7	1310.5	1320.4
55°	1156.9	1149.4	1171.7	1196.5	1206.4
57.5°	1045.4	1035.5	1060.3	1082.5	1087.5
60°	941.3	926.5	946.3	958.7	971.1
62.5°	837.3	820.0	834.8	842.3	852.2
65°	730.8	713.4	725.8	730.8	743.2
67.5°	629.2	616.8	619.3	626.7	631.7
70°	537.6	522.7	522.7	522.7	525.2
72.5°	453.3	431.0	428.6	431.0	431.0
75°	361.7	346.8	341.9	341.9	339.4
77.5°	289.8	270.0	267.5	262.6	257.6
80°	210.6	193.2	188.3	185.8	183.3
82.5°	146.2	131.3	126.3	121.4	114.0
85°	86.7	76.8	66.9	59.5	52.0
87.5°	32.2	29.7	24.8	22.3	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)