

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: P296369

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296369  
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-5000K  
Description: RLN LED 2x4 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6180.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

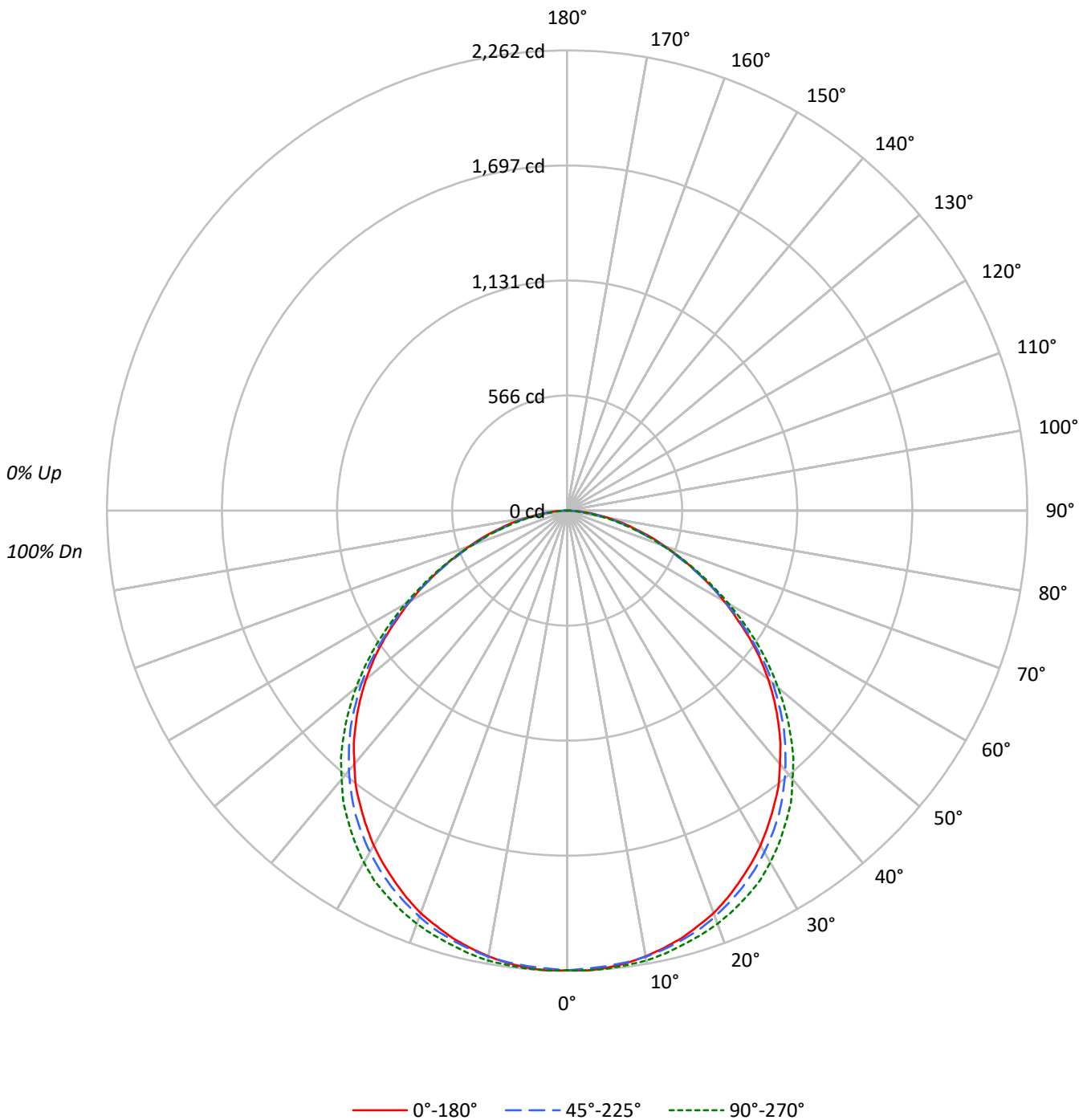
Input Watts (W): 62.124  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3041	3041	3041
5°	3046	3037	3052
10°	3040	3043	3069
15°	3031	3044	3076
20°	3014	3041	3095
25°	2983	3032	3105
30°	2954	3012	3103
35°	2911	2984	3077
40°	2858	2932	3027
45°	2793	2864	2953
50°	2699	2763	2837
55°	2568	2601	2678
60°	2397	2410	2473
65°	2202	2187	2239
70°	2001	1946	1955
75°	1779	1682	1670
80°	1544	1381	1344
85°	1267	977	760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.3	3.5
10°-20°	617.9	10.0
20°-30°	943.2	15.3
30°-40°	1137.1	18.4
40°-50°	1159.6	18.8
50°-60°	992.4	16.1
60°-70°	683.6	11.1
70°-80°	350.4	5.7
80°-90°	81.6	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°	1775.4	28.7
0°-40°	2912.5	47.1
0°-60°	5064.4	81.9
0°-90°	6180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2255	2251	2248	2255	2260	214
15°	2176	2173	2185	2201	2208	614
25°	2009	2016	2042	2077	2091	927
35°	1772	1779	1817	1857	1873	1109
45°	1468	1470	1505	1543	1552	1131
55°	1095	1088	1109	1132	1142	977
65°	692	675	687	692	703	687
75°	342	328	324	324	321	369
85°	82	73	63	56	49	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2262.4	2257.7	2253.0	2257.7	2262.4
5°	2255.4	2250.7	2248.3	2255.4	2260.0
7.5°	2243.6	2238.9	2238.9	2248.3	2253.0
10°	2224.9	2222.5	2227.2	2236.6	2246.0
12.5°	2201.4	2201.4	2208.5	2220.2	2229.6
15°	2175.6	2173.3	2185.0	2201.4	2208.5
17.5°	2140.5	2142.8	2159.2	2178.0	2187.4
20°	2105.3	2107.7	2124.1	2149.9	2161.6
22.5°	2060.8	2065.5	2084.2	2117.0	2128.8
25°	2009.2	2016.2	2042.0	2077.2	2091.2
27.5°	1957.6	1964.6	1992.8	2032.6	2051.4
30°	1901.3	1910.7	1938.9	1981.1	1997.5
32.5°	1838.0	1845.1	1880.2	1922.4	1938.9
35°	1772.4	1779.4	1816.9	1856.8	1873.2
37.5°	1706.8	1706.8	1744.3	1791.2	1807.6
40°	1627.0	1629.4	1669.2	1713.8	1723.2
42.5°	1552.0	1552.0	1587.2	1629.4	1645.8
45°	1467.6	1470.0	1505.1	1542.6	1552.0
47.5°	1380.9	1380.9	1411.4	1446.5	1455.9
50°	1289.4	1284.8	1319.9	1348.1	1355.1
52.5°	1195.7	1188.6	1216.8	1240.2	1249.6
55°	1094.9	1087.8	1108.9	1132.4	1141.7
57.5°	989.4	980.0	1003.4	1024.5	1029.2
60°	890.9	876.8	895.6	907.3	919.0
62.5°	792.4	776.0	790.1	797.1	806.5
65°	691.6	675.2	686.9	691.6	703.3
67.5°	595.5	583.8	586.1	593.1	597.8
70°	508.7	494.7	494.7	494.7	497.0
72.5°	429.0	407.9	405.6	407.9	407.9
75°	342.3	328.2	323.5	323.5	321.2
77.5°	274.3	255.5	253.2	248.5	243.8
80°	199.3	182.9	178.2	175.8	173.5
82.5°	138.3	124.3	119.6	114.9	107.8
85°	82.1	72.7	63.3	56.3	49.2
87.5°	30.5	28.1	23.4	21.1	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)