

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: P296705

Luminaire Tested: **22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296705  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36060-R2)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RLN-LD5-44-RDP-UNV-L92765-W2A1-U-5000K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3287.1 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

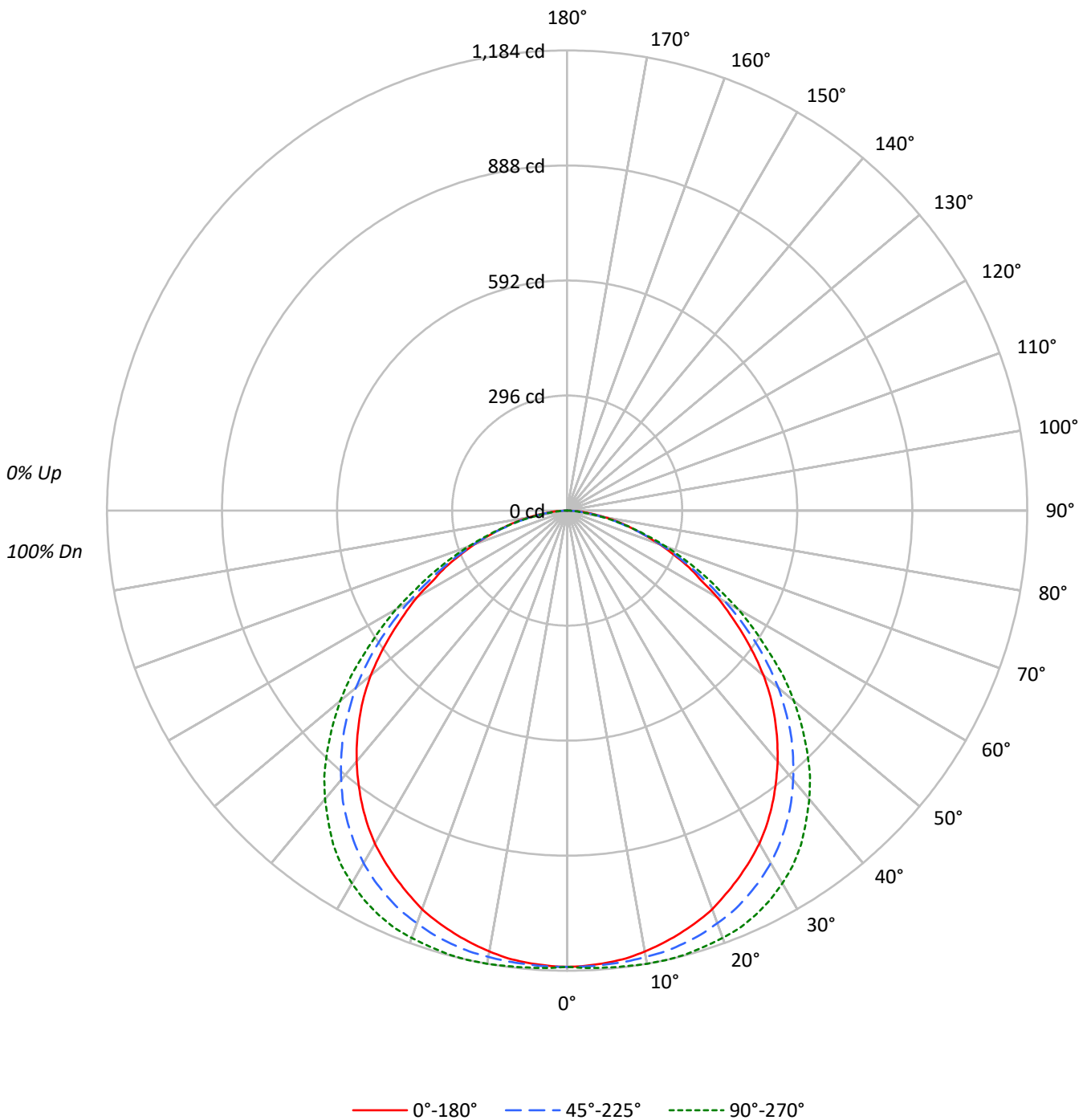
Input Watts (W): 36.456  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	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	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3159	3159	3159
5°	3155	3166	3188
10°	3148	3186	3236
15°	3137	3215	3293
20°	3126	3236	3351
25°	3098	3253	3409
30°	3074	3255	3442
35°	3025	3230	3448
40°	2959	3178	3404
45°	2877	3099	3321
50°	2761	2971	3190
55°	2585	2783	2971
60°	2402	2532	2738
65°	2202	2279	2432
70°	1993	2024	2120
75°	1756	1714	1777
80°	1526	1402	1340
85°	1241	932	806



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	3.4
10°-20°	326.0	9.9
20°-30°	505.1	15.4
30°-40°	614.7	18.7
40°-50°	626.1	19.0
50°-60°	528.0	16.1
60°-70°	357.2	10.9
70°-80°	178.5	5.4
80°-90°	39.7	1.2
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°	942.9	28.7
0°-40°	1557.6	47.4
0°-60°	2711.7	82.5
0°-90°	3287.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3287.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1168	1170	1172	1178	1180	111
15°	1126	1134	1154	1174	1182	318
25°	1043	1060	1096	1132	1148	481
35°	921	941	983	1029	1050	576
45°	756	770	814	856	873	582
55°	551	559	593	621	633	493
65°	346	340	358	374	382	342
75°	169	163	165	167	171	181
85°	40	34	30	26	26	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1174.1	1174.1	1174.1	1174.1	1174.1
2.5°	1172.1	1172.1	1174.1	1176.1	1178.1
5°	1168.1	1170.1	1172.1	1178.1	1180.2
7.5°	1162.1	1164.1	1170.1	1178.1	1182.2
10°	1152.0	1156.0	1166.1	1178.1	1184.2
12.5°	1139.9	1146.0	1162.1	1176.1	1184.2
15°	1125.9	1133.9	1154.0	1174.1	1182.2
17.5°	1109.8	1119.8	1144.0	1166.1	1176.1
20°	1091.7	1103.8	1129.9	1158.0	1170.1
22.5°	1067.6	1083.7	1115.8	1148.0	1162.1
25°	1043.4	1059.5	1095.7	1131.9	1148.0
27.5°	1017.3	1035.4	1073.6	1113.8	1129.9
30°	989.2	1005.2	1047.5	1089.7	1107.8
32.5°	957.0	973.1	1017.3	1061.5	1081.6
35°	920.8	940.9	983.1	1029.4	1049.5
37.5°	882.6	900.7	946.9	991.2	1009.3
40°	842.4	860.5	904.7	951.0	969.1
42.5°	800.2	818.3	860.5	904.7	924.8
45°	755.9	770.0	814.2	856.5	872.6
47.5°	709.7	719.8	762.0	802.2	818.3
50°	659.4	669.5	709.7	745.9	762.0
52.5°	605.2	613.2	651.4	683.6	701.7
55°	550.9	558.9	593.1	621.2	633.3
57.5°	496.6	500.6	530.8	558.9	571.0
60°	446.3	446.3	470.5	492.6	508.7
62.5°	388.0	394.1	412.2	434.3	440.3
65°	345.8	339.8	357.9	374.0	382.0
67.5°	297.6	293.5	305.6	319.7	323.7
70°	253.3	247.3	257.3	265.4	269.4
72.5°	207.1	205.1	209.1	215.1	217.1
75°	168.9	162.8	164.9	166.9	170.9
77.5°	134.7	124.7	126.7	124.7	126.7
80°	98.5	90.5	90.5	88.5	86.5
82.5°	66.3	62.3	58.3	54.3	52.3
85°	40.2	34.2	30.2	26.1	26.1
87.5°	16.1	12.1	10.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)