

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: P296697

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296697  
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-LD5-40-RDP-UNV-L92765-W2A1-U-5500K  
Description: RLN LED 2x2 TUNABLE WHITE TROFFER  
WITH RDP LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3048.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 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

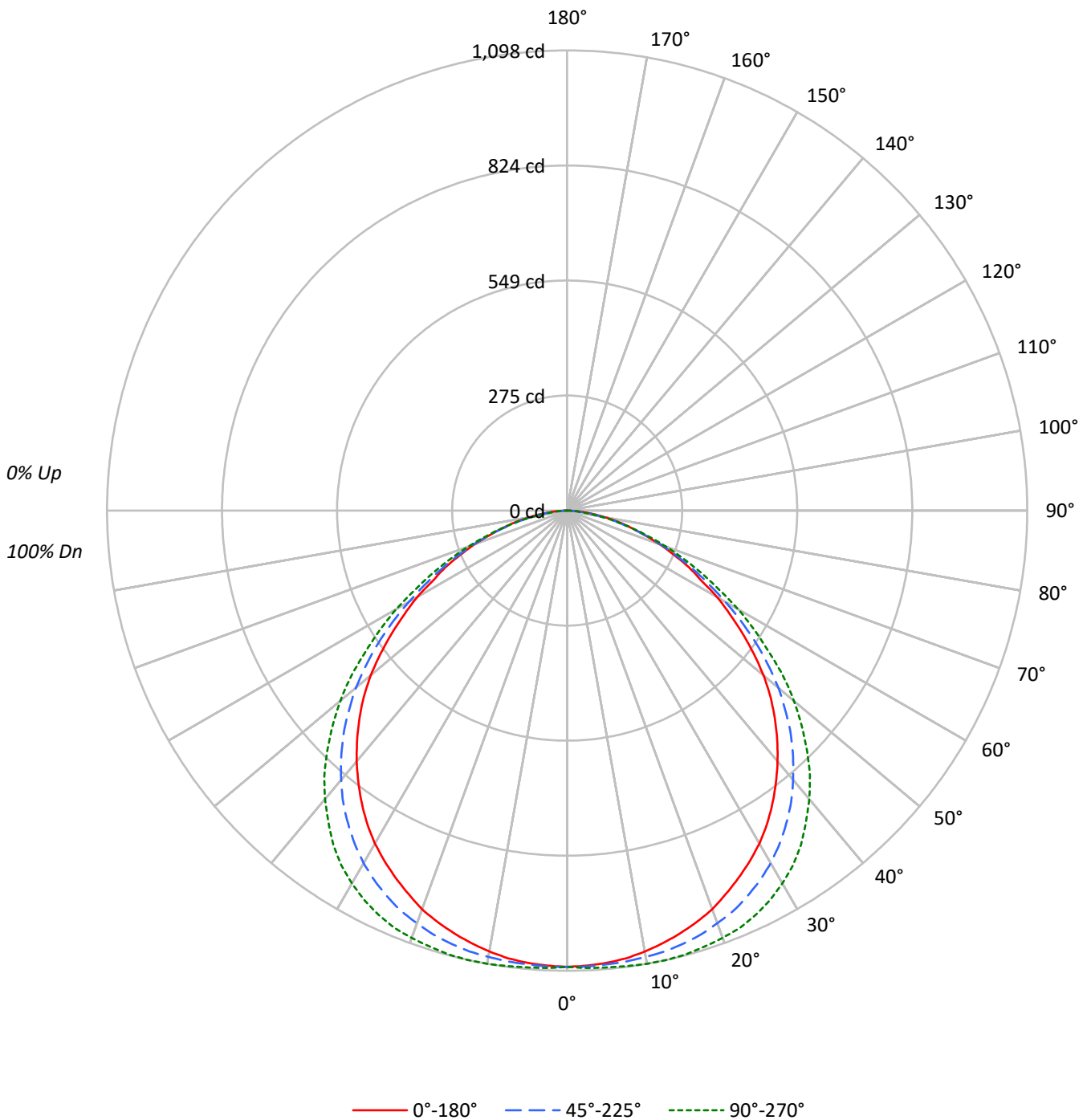
Input Watts (W): 33.015  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2930	2930	2930
5°	2926	2936	2956
10°	2919	2955	3001
15°	2908	2981	3054
20°	2899	3000	3107
25°	2873	3017	3161
30°	2850	3018	3192
35°	2805	2995	3197
40°	2744	2947	3157
45°	2668	2873	3079
50°	2560	2755	2958
55°	2396	2580	2755
60°	2228	2348	2539
65°	2042	2113	2255
70°	1848	1877	1965
75°	1628	1590	1648
80°	1416	1300	1243
85°	1152	865	747



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.7	3.4
10°-20°	302.3	9.9
20°-30°	468.4	15.4
30°-40°	570.0	18.7
40°-50°	580.5	19.0
50°-60°	489.6	16.1
60°-70°	331.2	10.9
70°-80°	165.5	5.4
80°-90°	36.8	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°	874.3	28.7
0°-40°	1444.4	47.4
0°-60°	2514.5	82.5
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1089	1089	1089	1089	1089	
5°	1083	1085	1087	1092	1094	103
15°	1044	1052	1070	1089	1096	295
25°	968	982	1016	1050	1064	446
35°	854	872	912	954	973	534
45°	701	714	755	794	809	540
55°	511	518	550	576	587	457
65°	321	315	332	347	354	317
75°	157	151	153	155	158	168
85°	37	32	28	24	24	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1088.8	1088.8	1088.8	1088.8	1088.8
2.5°	1086.9	1086.9	1088.8	1090.6	1092.5
5°	1083.2	1085.0	1086.9	1092.5	1094.3
7.5°	1077.6	1079.4	1085.0	1092.5	1096.2
10°	1068.2	1072.0	1081.3	1092.5	1098.1
12.5°	1057.1	1062.7	1077.6	1090.6	1098.1
15°	1044.0	1051.5	1070.1	1088.8	1096.2
17.5°	1029.1	1038.4	1060.8	1081.3	1090.6
20°	1012.3	1023.5	1047.7	1073.8	1085.0
22.5°	989.9	1004.9	1034.7	1064.5	1077.6
25°	967.6	982.5	1016.0	1049.6	1064.5
27.5°	943.3	960.1	995.5	1032.8	1047.7
30°	917.2	932.2	971.3	1010.5	1027.2
32.5°	887.4	902.3	943.3	984.4	1003.0
35°	853.9	872.5	911.6	954.5	973.2
37.5°	818.4	835.2	878.1	919.1	935.9
40°	781.1	797.9	838.9	881.8	898.6
42.5°	742.0	758.8	797.9	838.9	857.6
45°	701.0	714.0	755.0	794.2	809.1
47.5°	658.1	667.4	706.6	743.9	758.8
50°	611.5	620.8	658.1	691.7	706.6
52.5°	561.2	568.6	604.0	633.9	650.6
55°	510.8	518.3	550.0	576.1	587.3
57.5°	460.5	464.2	492.2	518.3	529.5
60°	413.9	413.9	436.2	456.8	471.7
62.5°	359.8	365.4	382.2	402.7	408.3
65°	320.7	315.1	331.8	346.8	354.2
67.5°	275.9	272.2	283.4	296.4	300.2
70°	234.9	229.3	238.6	246.1	249.8
72.5°	192.0	190.2	193.9	199.5	201.3
75°	156.6	151.0	152.9	154.7	158.5
77.5°	124.9	115.6	117.5	115.6	117.5
80°	91.4	83.9	83.9	82.0	80.2
82.5°	61.5	57.8	54.1	50.3	48.5
85°	37.3	31.7	28.0	24.2	24.2
87.5°	14.9	11.2	9.3	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)