

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: P296511

Luminaire Tested: **22RLN-LD5-31-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296511
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-31-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2952.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

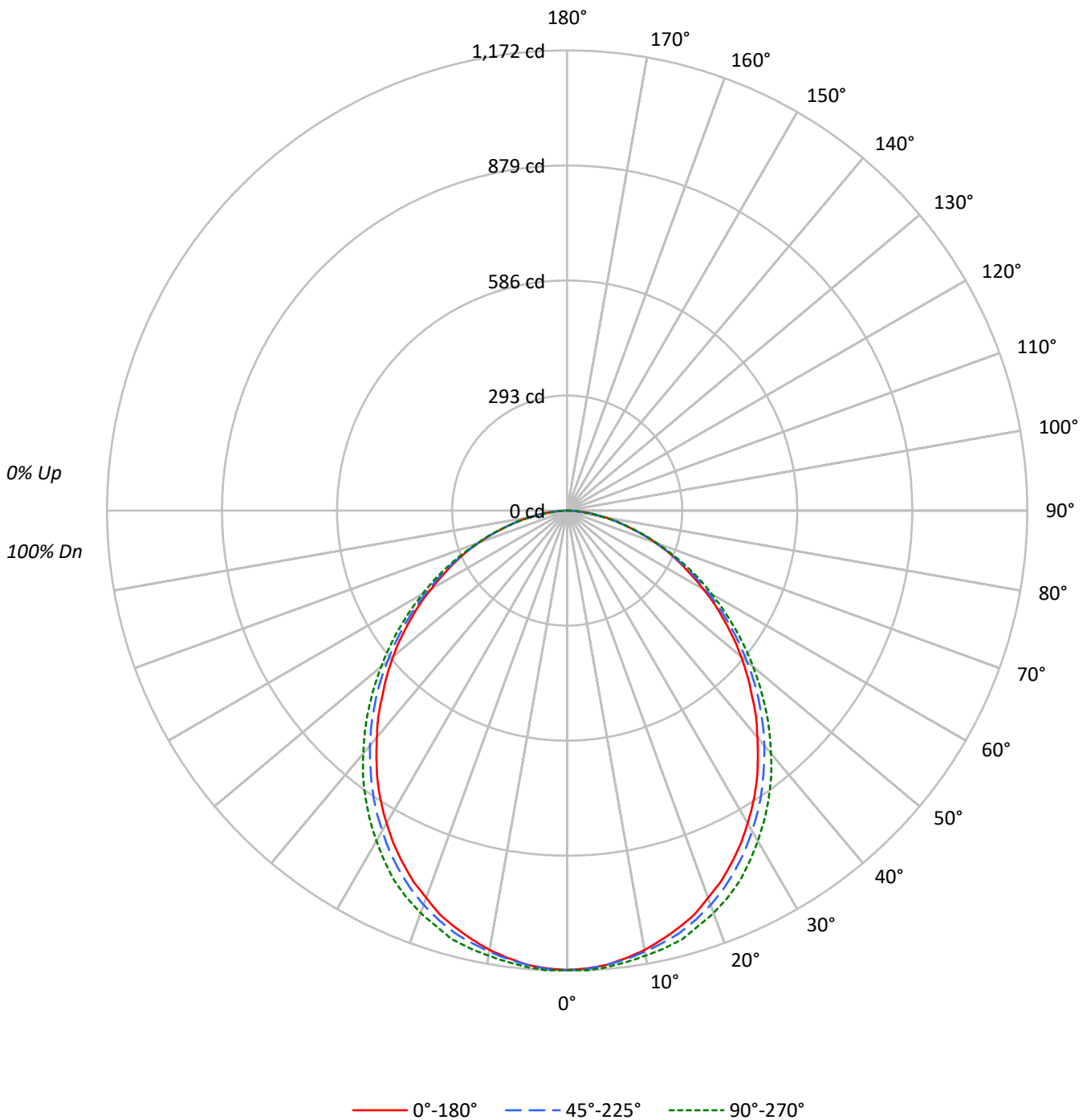
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	74	71
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3149	3149	3149
5°	3137	3137	3153
10°	3105	3117	3145
15°	3063	3100	3149
20°	3005	3060	3123
25°	2941	3002	3090
30°	2858	2927	3018
35°	2766	2843	2940
40°	2647	2745	2838
45°	2532	2633	2722
50°	2421	2502	2588
55°	2292	2362	2444
60°	2154	2210	2289
65°	2024	2062	2127
70°	1888	1888	1922
75°	1683	1683	1683
80°	1483	1437	1437
85°	1183	1136	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.7
10°-20°	313.7	10.6
20°-30°	466.1	15.8
30°-40°	540.9	18.3
40°-50°	532.6	18.0
50°-60°	450.7	15.3
60°-70°	321.4	10.9
70°-80°	172.7	5.9
80°-90°	43.5	1.5
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°	890.1	30.2
0°-40°	1431.0	48.5
0°-60°	2414.3	81.8
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1161	1161	1161	1166	1167	110
15°	1100	1102	1113	1123	1130	310
25°	990	994	1011	1030	1041	456
35°	842	843	865	886	895	525
45°	665	670	692	708	715	514
55°	489	490	503	517	521	438
65°	318	318	324	330	334	315
75°	162	160	162	162	162	174
85°	38	37	37	34	34	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.1	1170.1	1170.1	1170.1	1170.1
2.5°	1167.2	1167.2	1168.6	1170.1	1171.6
5°	1161.3	1161.3	1161.3	1165.7	1167.2
7.5°	1149.5	1151.0	1152.4	1156.9	1159.8
10°	1136.3	1137.7	1140.7	1148.0	1151.0
12.5°	1118.6	1123.0	1127.4	1137.7	1142.1
15°	1099.5	1102.4	1112.7	1123.0	1130.4
17.5°	1078.9	1080.3	1092.1	1106.8	1109.8
20°	1049.4	1053.8	1068.6	1083.3	1090.6
22.5°	1022.9	1025.9	1042.1	1061.2	1067.1
25°	990.5	993.5	1011.2	1030.3	1040.6
27.5°	956.7	959.6	978.8	999.4	1006.7
30°	919.9	922.8	942.0	964.1	971.4
32.5°	881.6	884.6	905.2	924.3	934.6
35°	841.9	843.4	865.4	886.0	894.9
37.5°	797.7	802.1	822.8	843.4	853.7
40°	753.6	758.0	781.5	800.7	808.0
42.5°	712.4	718.3	737.4	755.1	762.4
45°	665.3	669.7	691.8	708.0	715.3
47.5°	622.6	627.0	646.1	662.3	666.7
50°	578.4	581.4	597.6	612.3	618.2
52.5°	534.3	535.7	550.5	565.2	569.6
55°	488.6	490.1	503.4	516.6	521.0
57.5°	446.0	446.0	457.7	468.0	472.5
60°	400.3	400.3	410.6	420.9	425.4
62.5°	357.7	357.7	368.0	375.3	381.2
65°	317.9	317.9	323.8	329.7	334.1
67.5°	279.6	275.2	281.1	288.5	287.0
70°	239.9	235.5	239.9	242.9	244.3
72.5°	200.2	197.2	200.2	201.6	204.6
75°	161.9	160.4	161.9	161.9	161.9
77.5°	129.5	125.1	128.0	126.6	125.1
80°	95.7	94.2	92.7	91.3	92.7
82.5°	66.2	64.8	64.8	61.8	61.8
85°	38.3	36.8	36.8	33.9	33.9
87.5°	14.7	14.7	13.2	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)