

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: P296518

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296518
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-LD5-35-UNV-L92765-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3207.0 lumens
Efficiency: N/A
Efficacy: 112.7 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

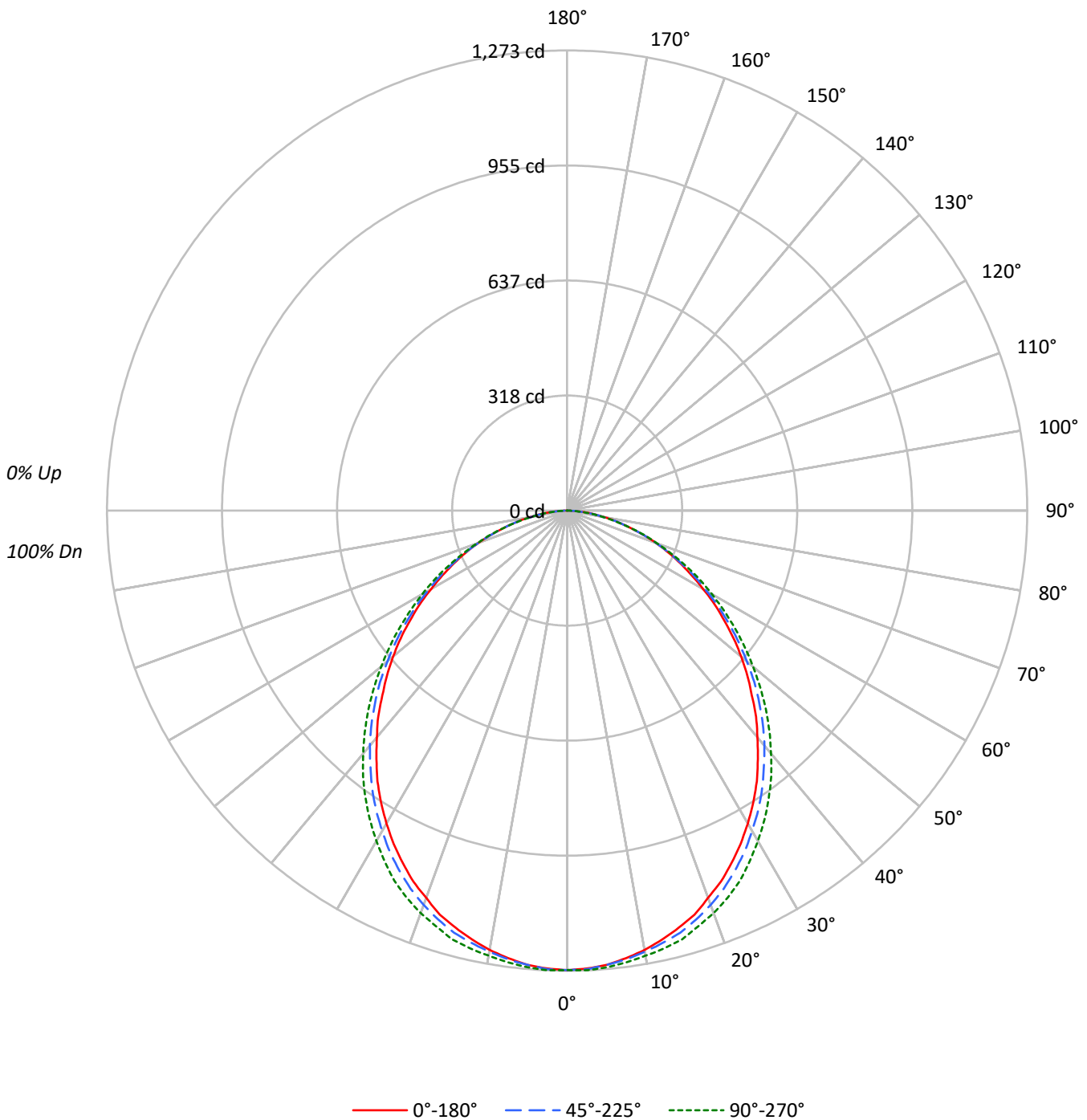
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3421	3421	3421
5°	3408	3408	3425
10°	3373	3386	3417
15°	3327	3368	3421
20°	3265	3324	3393
25°	3195	3262	3357
30°	3105	3180	3279
35°	3005	3089	3194
40°	2876	2983	3084
45°	2750	2860	2957
50°	2631	2718	2812
55°	2491	2565	2655
60°	2341	2401	2487
65°	2199	2240	2311
70°	2050	2050	2088
75°	1829	1829	1829
80°	1610	1561	1561
85°	1284	1235	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.7
10°-20°	340.8	10.6
20°-30°	506.3	15.8
30°-40°	587.6	18.3
40°-50°	578.6	18.0
50°-60°	489.6	15.3
60°-70°	349.2	10.9
70°-80°	187.6	5.9
80°-90°	47.3	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°	967.0	30.2
0°-40°	1554.6	48.5
0°-60°	2622.9	81.8
0°-90°	3207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1262	1262	1262	1266	1268	120
15°	1194	1198	1209	1220	1228	337
25°	1076	1079	1098	1119	1130	495
35°	915	916	940	963	972	571
45°	723	728	752	769	777	559
55°	531	532	547	561	566	476
65°	345	345	352	358	363	343
75°	176	174	176	176	176	189
85°	42	40	40	37	37	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.2	1271.2	1271.2	1271.2	1271.2
2.5°	1268.0	1268.0	1269.6	1271.2	1272.8
5°	1261.6	1261.6	1261.6	1266.4	1268.0
7.5°	1248.8	1250.4	1252.0	1256.8	1260.0
10°	1234.4	1236.0	1239.2	1247.2	1250.4
12.5°	1215.2	1220.0	1224.8	1236.0	1240.8
15°	1194.4	1197.6	1208.8	1220.0	1228.0
17.5°	1172.0	1173.6	1186.4	1202.4	1205.6
20°	1140.1	1144.9	1160.9	1176.8	1184.8
22.5°	1111.3	1114.5	1132.1	1152.9	1159.3
25°	1076.1	1079.3	1098.5	1119.3	1130.5
27.5°	1039.3	1042.5	1063.3	1085.7	1093.7
30°	999.4	1002.6	1023.3	1047.3	1055.3
32.5°	957.8	961.0	983.4	1004.2	1015.3
35°	914.6	916.2	940.2	962.6	972.2
37.5°	866.6	871.4	893.8	916.2	927.4
40°	818.7	823.5	849.1	869.8	877.8
42.5°	773.9	780.3	801.1	820.3	828.3
45°	722.7	727.5	751.5	769.1	777.1
47.5°	676.4	681.2	701.9	719.5	724.3
50°	628.4	631.6	649.2	665.2	671.6
52.5°	580.4	582.0	598.0	614.0	618.8
55°	530.9	532.5	546.8	561.2	566.0
57.5°	484.5	484.5	497.3	508.5	513.3
60°	434.9	434.9	446.1	457.3	462.1
62.5°	388.6	388.6	399.7	407.7	414.1
65°	345.4	345.4	351.8	358.2	363.0
67.5°	303.8	299.0	305.4	313.4	311.8
70°	260.6	255.8	260.6	263.8	265.4
72.5°	217.5	214.3	217.5	219.1	222.3
75°	175.9	174.3	175.9	175.9	175.9
77.5°	140.7	135.9	139.1	137.5	135.9
80°	103.9	102.3	100.7	99.1	100.7
82.5°	72.0	70.4	70.4	67.2	67.2
85°	41.6	40.0	40.0	36.8	36.8
87.5°	16.0	16.0	14.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)