

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: P296521

Luminaire Tested: **22RLN-LD5-35-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296521
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3337.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

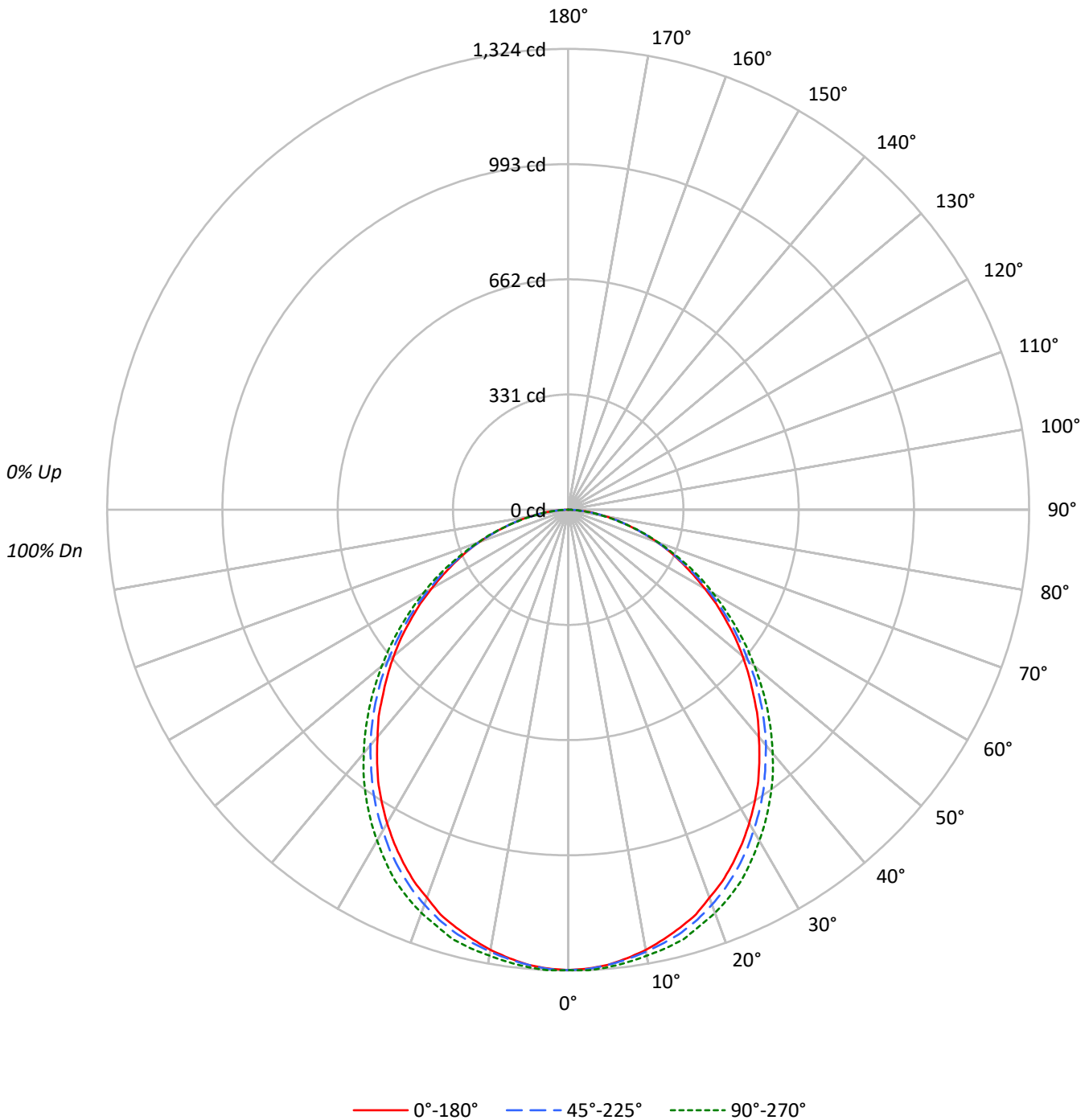
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3559	3559	3559
5°	3546	3546	3564
10°	3510	3523	3555
15°	3463	3504	3560
20°	3397	3459	3531
25°	3325	3394	3493
30°	3231	3309	3412
35°	3126	3214	3323
40°	2993	3104	3209
45°	2862	2976	3077
50°	2737	2828	2925
55°	2592	2670	2763
60°	2436	2498	2588
65°	2288	2330	2405
70°	2134	2134	2173
75°	1903	1903	1903
80°	1675	1624	1624
85°	1337	1284	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	3.7
10°-20°	354.7	10.6
20°-30°	526.8	15.8
30°-40°	611.4	18.3
40°-50°	602.0	18.0
50°-60°	509.5	15.3
60°-70°	363.3	10.9
70°-80°	195.2	5.9
80°-90°	49.2	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°	1006.2	30.2
0°-40°	1617.7	48.5
0°-60°	2729.2	81.8
0°-90°	3337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1313	1313	1313	1318	1319	124
15°	1243	1246	1258	1270	1278	350
25°	1120	1123	1143	1165	1176	515
35°	952	953	978	1002	1012	594
45°	752	757	782	800	809	581
55°	552	554	569	584	589	495
65°	359	359	366	373	378	357
75°	183	181	183	183	183	197
85°	43	42	42	38	38	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1322.7	1322.7	1322.7	1322.7	1322.7
2.5°	1319.4	1319.4	1321.1	1322.7	1324.4
5°	1312.7	1312.7	1312.7	1317.7	1319.4
7.5°	1299.4	1301.1	1302.7	1307.7	1311.1
10°	1284.4	1286.1	1289.4	1297.8	1301.1
12.5°	1264.5	1269.5	1274.5	1286.1	1291.1
15°	1242.9	1246.2	1257.8	1269.5	1277.8
17.5°	1219.6	1221.2	1234.5	1251.2	1254.5
20°	1186.3	1191.3	1207.9	1224.6	1232.9
22.5°	1156.3	1159.7	1178.0	1199.6	1206.2
25°	1119.7	1123.1	1143.0	1164.7	1176.3
27.5°	1081.5	1084.8	1106.4	1129.7	1138.0
30°	1039.9	1043.2	1064.8	1089.8	1098.1
32.5°	996.6	999.9	1023.2	1044.9	1056.5
35°	951.7	953.4	978.3	1001.6	1011.6
37.5°	901.8	906.8	930.1	953.4	965.0
40°	851.9	856.9	883.5	905.1	913.4
42.5°	805.3	811.9	833.6	853.5	861.8
45°	752.0	757.0	782.0	800.3	808.6
47.5°	703.8	708.8	730.4	748.7	753.7
50°	653.9	657.2	675.5	692.1	698.8
52.5°	604.0	605.6	622.3	638.9	643.9
55°	552.4	554.0	569.0	584.0	589.0
57.5°	504.1	504.1	517.4	529.1	534.1
60°	452.6	452.6	464.2	475.8	480.8
62.5°	404.3	404.3	415.9	424.3	430.9
65°	359.4	359.4	366.0	372.7	377.7
67.5°	316.1	311.1	317.8	326.1	324.4
70°	271.2	266.2	271.2	274.5	276.2
72.5°	226.3	222.9	226.3	227.9	231.3
75°	183.0	181.4	183.0	183.0	183.0
77.5°	146.4	141.4	144.7	143.1	141.4
80°	108.1	106.5	104.8	103.2	104.8
82.5°	74.9	73.2	73.2	69.9	69.9
85°	43.3	41.6	41.6	38.3	38.3
87.5°	16.6	16.6	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)