

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: P296562

Luminaire Tested: **22RLN-LD5-40-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296562
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-L83050-W2A1-U-3500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3247.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

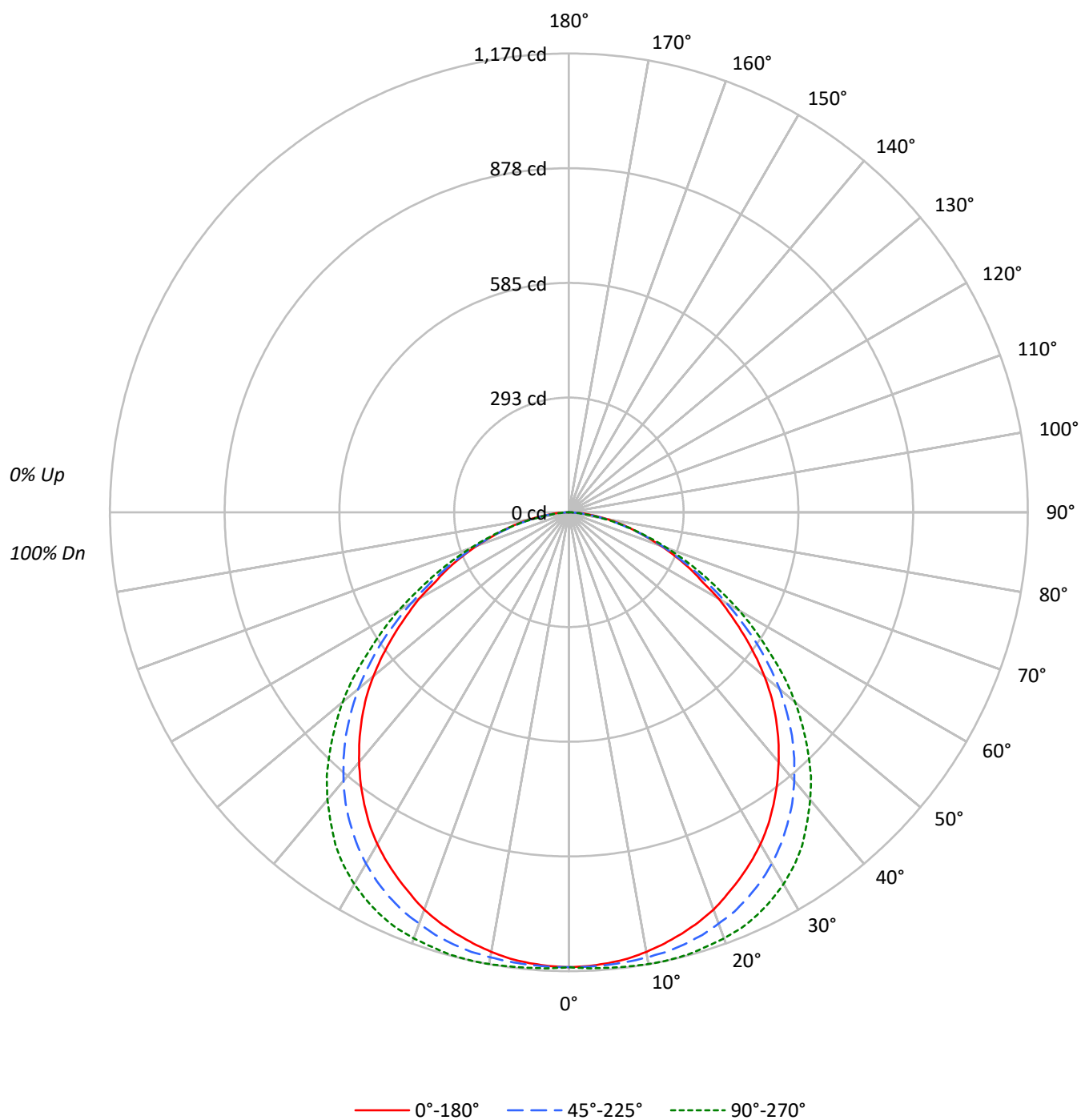
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	103	99	96		98	95	93		94	92	90		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	74
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	42		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		50	43	37		49	42	37		47	41	37
8	61	48	40	34	60	47	39	34		46	39	33		45	38	33		44	38	33
9	57	44	36	30	56	43	36	30		42	35	30		41	35	30		40	34	30
10	54	41	33	28	52	40	33	27		39	32	27		38	32	27		37	31	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3121	3121	3121
5°	3117	3128	3149
10°	3110	3148	3196
15°	3098	3176	3253
20°	3088	3196	3310
25°	3060	3214	3367
30°	3036	3215	3400
35°	2988	3190	3406
40°	2923	3139	3363
45°	2842	3061	3280
50°	2727	2935	3151
55°	2553	2749	2935
60°	2373	2501	2704
65°	2175	2251	2402
70°	1969	2000	2094
75°	1734	1694	1755
80°	1508	1385	1323
85°	1226	920	797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.4
10°-20°	322.0	9.9
20°-30°	498.9	15.4
30°-40°	607.2	18.7
40°-50°	618.4	19.0
50°-60°	521.5	16.1
60°-70°	352.8	10.9
70°-80°	176.3	5.4
80°-90°	39.2	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°	931.4	28.7
0°-40°	1538.6	47.4
0°-60°	2678.6	82.5
0°-90°	3247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3247.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1160	1160	1160	1160	1160	
5°	1154	1156	1158	1164	1166	110
15°	1112	1120	1140	1160	1168	314
25°	1031	1047	1082	1118	1134	475
35°	910	930	971	1017	1037	569
45°	747	761	804	846	862	575
55°	544	552	586	614	626	487
65°	342	336	354	369	377	337
75°	167	161	163	165	169	179
85°	40	34	30	26	26	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1159.8	1159.8	1159.8	1159.8	1159.8
2.5°	1157.9	1157.9	1159.8	1161.8	1163.8
5°	1153.9	1155.9	1157.9	1163.8	1165.8
7.5°	1147.9	1149.9	1155.9	1163.8	1167.8
10°	1138.0	1142.0	1151.9	1163.8	1169.8
12.5°	1126.1	1132.0	1147.9	1161.8	1169.8
15°	1112.2	1120.1	1140.0	1159.8	1167.8
17.5°	1096.3	1106.2	1130.0	1151.9	1161.8
20°	1078.4	1090.3	1116.1	1144.0	1155.9
22.5°	1054.6	1070.5	1102.2	1134.0	1147.9
25°	1030.7	1046.6	1082.4	1118.1	1134.0
27.5°	1004.9	1022.8	1060.5	1100.3	1116.1
30°	977.1	993.0	1034.7	1076.4	1094.3
32.5°	945.3	961.2	1004.9	1048.6	1068.5
35°	909.6	929.5	971.2	1016.8	1036.7
37.5°	871.9	889.7	935.4	979.1	997.0
40°	832.1	850.0	893.7	939.4	957.3
42.5°	790.4	808.3	850.0	893.7	913.6
45°	746.7	760.6	804.3	846.0	861.9
47.5°	701.1	711.0	752.7	792.4	808.3
50°	651.4	661.3	701.1	736.8	752.7
52.5°	597.8	605.7	643.5	675.2	693.1
55°	544.2	552.1	585.9	613.7	625.6
57.5°	490.5	494.5	524.3	552.1	564.0
60°	440.9	440.9	464.7	486.6	502.5
62.5°	383.3	389.3	407.1	429.0	434.9
65°	341.6	335.6	353.5	369.4	377.3
67.5°	293.9	290.0	301.9	315.8	319.8
70°	250.2	244.3	254.2	262.2	266.1
72.5°	204.6	202.6	206.5	212.5	214.5
75°	166.8	160.9	162.9	164.8	168.8
77.5°	133.1	123.1	125.1	123.1	125.1
80°	97.3	89.4	89.4	87.4	85.4
82.5°	65.5	61.6	57.6	53.6	51.6
85°	39.7	33.8	29.8	25.8	25.8
87.5°	15.9	11.9	9.9	9.9	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)